

Operating Instructions



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KDP-51WS550 KDP-57WS550 KDP-65WS550

Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Note on Convergence Adjustment

Before you use your projection TV, make sure to adjust convergence. For details, see "Adjusting the Convergence Automatically (Flash Focus)" on page 42.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- □ Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Safety

- Operate the projection TV only on 120 V AC.
- The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- □ If any liquid or solid object should fall inside the cabinet, unplug the projection TV immediately and have it checked by qualified service personnel before operating it further.
- If you will not be using the projection TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
- □ For details concerning safety precautions, see "Important Safety Instructions" on page 3.

Installing

- To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperatures below 5°C (41°F).
- If the projection TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color due to moisture condensation. In this case, please wait a few hours to let the moisture evaporate before turning on the projection TV.

To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of a reflective material.



Trademark Information

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BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

Steady Sound, Digital Reality Creation, Caption Vision, CineMotion, Memory Stick, and Twin View are registered trademarks of Sony Corporation. ClearEdge VM, HD Detailer, and Uniform Brightness Screen are trademarks of Sony Corporation. i.LINK is a trademark of Sony Corporation and used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.

For Safety

Be careful when moving the projection TV When you place the projection TV in position, be careful not to drop it on your foot or fingers.

Watch your footing while installing the projection TV.

Carry the projection TV in the specified manner

If you carry the projection TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.

- Carry the projection TV with the specified number of persons (see "Carrying Your Projection TV" on page 12).
- Do not carry the projection TV holding the speaker grill.
- Hold the projection TV tightly when carrying it.

The projection TV includes handles that you can use to carry the unit (KDP-65WS550 only).

Important Safety Instructions

- Read these instructions.
- 2 Keep these instructions.
- **3** Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- **13** Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Additional Cleaning Instructions

Clean the cabinet of the projection TV with a dry, soft cloth. To clean the screen of your projection TV, please use only a clean, soft cloth lightly dampened with water. Stubborn stains such as fingerprints can be removed with a clean, soft cloth lightly dampened with a solution of mild soap and warm water. Never use alcohol or strong solvents (such as thinner, benzene, ammonia, or alcohol-based), or abrasive cleaning solutions to clean your TV screen.

If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.

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Introducing the Digital Projection TV

Welcome	
	This chapter describes the contents of the package in which the TV is shipped and provides an overview of the features of your Digital Projection TV.
Package Contents	Along with your new projection TV, the package contains a remote control and two AA batteries. No additional cables are included. These items are all you need to set up and operate the projection TV in its basic configuration.
	Most components (VCRs, DVD players, etc.) come with the necessary cables to connect them. If you want to set up a complex system, you may need to buy extra cables, connectors, etc. Be sure to have these on hand before you start to connect your system.
Features	Some of the features that you will enjoy with your new TV include:
	Built-in Digital Television Receiver: You can watch digital television programs and enjoy the improved audio/video quality offered by these programs.
	Wide Screen Mode: Watch conventional 4:3 aspect ratio broadcasts in wide screen (16:9) mode.
	 High Definition Signal Reception: Watch TV signals broadcast in HDTV for the clearest possible broadcast picture.
	 DRC[®] (Digital Reality Creation) Multifunction V1: Unlike conventional line doublers, the DRC Multifunction feature replaces the signal's NTSC waveform with the near-HD equivalent, while doubling the number of vertical and horizontal lines. This results in four times the density for quality sources, such as DVD, satellite, and digital camcorders. The Video Menu allows you to select interlaced, progressive, or CineMotion[™] output. The DRC Palette option lets you customize the level of detail (Reality) and smoothness (Clarity) to create up to three custom palettes.
	Scrolling Index: Lets you select programs from a series of preview windows that scroll along the right side of the screen.
	 Favorite Channels: Allows you to preview and select from sixteen of your favorite channels.

- □ Twin View[™]: Using the Multi-Image Driver (MIDX), Twin View allows you to watch two programs side by side, with the ability to zoom in one picture. You can watch pictures from two different sources (1080i, 720p, 480p, and 480i) simultaneously. (Only the left Twin View window can display 1080i, 720p, and 480p sources.)
- □ **ClearEdge VM**[™] **Velocity Modulation:** Sharpens picture definition by enhancing vertical lines.
- □ **Steady Sound**[®]: Equalizes volume levels so there is consistent output between programs and commercials.
- Memory Stick[®] Viewer: Lets you watch digital photo (JPEG) and movie (MPEG1) files that are stored on Memory Stick media.
- □ **Component Video Inputs:** Offers the best video quality for DVD (480p, 480i), and digital set-top box (HD1080i, 720p) connections.
- □ **HD Detailer**[™]: Wideband video amplifier has a high bandwidth frequency rating, which allows it to send more video information to the screen, resulting in finer picture quality, especially for HD sources.
- □ CineMotion[™]: Reverse 3-2 pulldown processing provides optimal picture quality for film-based sources (media originally shot in 24 frames-per-second format).
- □ **Parental Control:** V-Chip technology allows parents to block unsuitable programming from younger viewers.
- Digital Visual Interface (DVI): Can accommodate a copyprotected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers.
- i.LINK: Provides a secure digital interface to other digital home entertainment devices. i.LINK allows for the secure transfer of copyright-protected high-definition content between these devices and your digital projection television.

^{*}High-bandwidth Digital Content Protection

Setting Up the Digital Projection TV

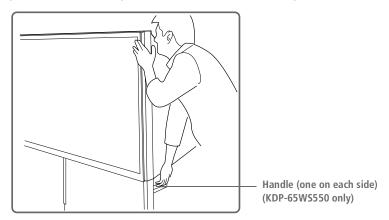
Overview

This chapter includes illustrated instructions for setting up your TV.

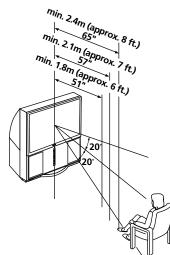
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Carrying Your Projection TV

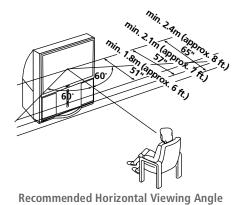
Carrying the TV requires four or more people. The TV is equipped with casters for easy movement on a hard surface. Be sure to move your projection TV using the casters. The TV includes handles that you can use to carry the unit (KDP-65WS550 only).



Installing the TV



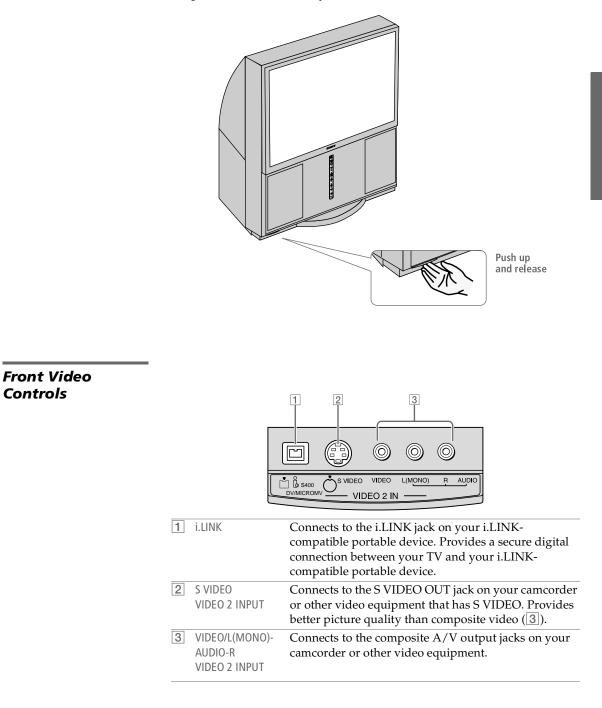
Recommended Vertical Viewing Angle

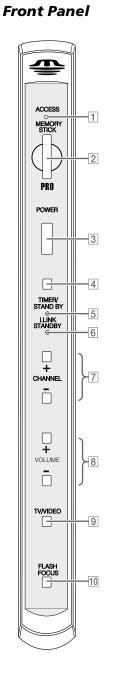


Setup

TV Controls and Connectors

To access the front video panel, push up and then release. The panel drops down automatically.

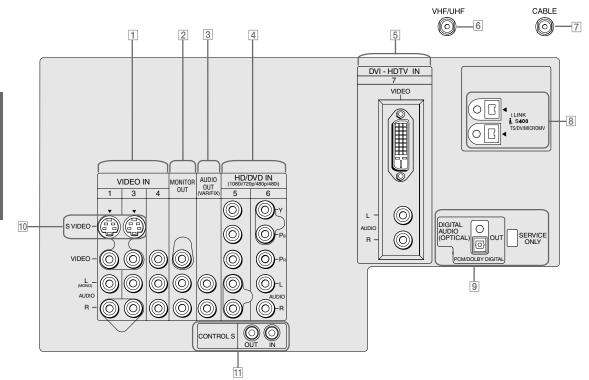




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Item	Description
1 MEMORY STICK ACCESS LED	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
2 MEMORY STICK	Memory Stick insertion slot. For details, see "Inserting and Removing a Memory Stick" on page 69.
3 POWER	Press to turn on and off the TV.
4 Infrared Receiver (IR)	Receives IR signals from the TV's remote control.
5 TIMER/ STAND BY LED	When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see page 104.
6 i.LINK STANDBY LED	When lit in orange, indicates that i.LINK Standby is on. For details, see page 105.
7 -CHANNEL+	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL button.
8 -VOLUME +	Press to adjust the volume.
9 TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
10 FLASH FOCUS	Press to adjust the convergence (see page 42).

Rear Panel



Jack	Description
1 VIDEO IN 1/3/4 VIDEO/L(MONO) -AUDIO-R	Connect to the composite A/V output jacks on your VCR or other video component. A fourth component A/V input jack (VIDEO 2) is located on the front panel of the TV. These video connections provide better picture quality than the VHF/UHF (6) connections.
2 MONITOR OUT	Lets you record the program you are watching to a VCR. When two VCRs are connected, you can use the TV as a monitor for tape-to-tape editing (not available with 480p, 720p, or 1080i when the input is set to VIDEO 5-7).
3 AUDIO OUT (VAR/FIX) L (MONO)/R	Connects to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
4 HD/DVD IN 5/6 (1080i/720p/480p/480i)	Connect to your DVD player's or digital set-top box's component video (Y, PB, PR) and audio (L/R) jacks. Component video provides better picture quality than 1, 6, or 10).
5 DVI-HDTV VIDEO AUDIO R/L (VIDEO 7 IN)	Can accommodate a copy-protected digital connection (HDCP*) to other devices (such as digital set-top boxes) that have compatible interfaces. The DVI-HDTV input terminal is compliant with the EIA-861 standard and is not intended for use with personal computers. See the instruction manual that came with your equipment for details about connecting and using it with the TV.
6 VHF/UHF	RF input that connects to your VHF/UHF antenna or cable box.
7 Cable	RF input that connects to your cable signal.
8 i.LINK	Used for connecting i.LINK-equipped devices.
 DIGITAL AUDIO OPTICAL OUTPUT (DOLBY DIGITAL PCM) 	Connect to the optical audio input of an audio component that is Dolby Digital and PCM compatible.
10 S VIDEO IN 1/3	Connects to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than either composite video (1) or VHF/UHF (6) connections.
11 CONTROL S IN/OUT	Allows the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment that has the CONTROL S function.

*High-bandwidth Digital Content Protection

Basic Connections: Connecting a Cable or Antenna

The way in which you will connect your TV varies, depending on how your home receives a signal (cable, cable box, antenna) and whether or not you plan to connect a VCR.

If You Are Connecting	See Page	
Cable or Antenna Only	19	
No cable box or VCR		
Cable and Antenna Only	20	
No cable box or VCR		
Cable Box and Cable Only	21	
 Cable box unscrambles only some channels (usually premium channels) 		
□ No VCR		
Cable Box Only	22	
Cable box unscrambles all channels		
No VCR		

If you are connecting a VCR

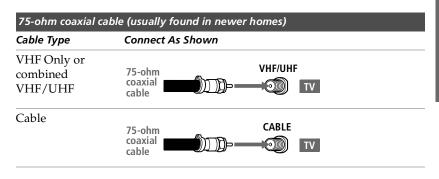
□ See the connections described on pages 24 and 26.

Cable or Antenna Only

For best results, use one of the following connections if you are connecting a cable or an antenna and you:

- Do not need a cable box to unscramble channels. (If you have a cable box, see pages 21-22.)
- Do not intend to connect a VCR. (If you have a VCR, see pages 24 and 26.)

The connection you choose depends on the cable type you have in your home, as described below.



300-ohm twin lead cable (usually found in older homes)		
Cable Type	Connect As Shown	
VHF Only or UHF Only or combined VHF/UHF		F/UHF TV

75-ohm coaxial and 300-ohm twin lead cable (found in some homes)		
Cable Type	Connect As Shown	
VHF and UHF	75-ohm coaxial cable	
	300-ohm twin lead cable	

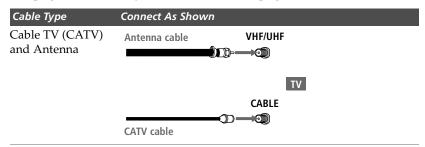
Cable and Antenna Only

For best results, use this connection if you:

□ Have a cable and an antenna.

(This is convenient if you are using a separate rooftop antenna to receive additional channels, such as HDTV channels, that are not provided by your cable company.)

□ Do not have a cable box or VCR. (if you have a cable box, see pages 21 to 22. If you have a VCR, see pages 24 and 26.)



To Do This	Do This
Switch the TV's input	Press ANT to switch back and forth between the TV's VHF/UHF and CABLE
between the cable and	inputs.
antenna	

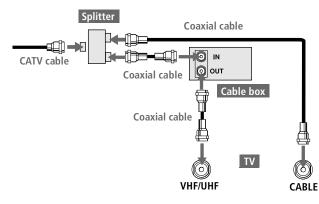
Cable Box and Cable Only

For best results, use this connection if:

- Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
- □ You do not have a VCR. (If you have a VCR, see pages 24 and 26.)

With this connection you can:

- □ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF input jack. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 49.)
- □ Use the TV remote control to change channels coming directly into the TV's CABLE input. (The TV's tuner provides a better signal than the cable box.)



About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, you can use all the dual picture features for unscrambled channels coming directly into the TV's CABLE input jack.

Notes on osing this connection	
To Do This	Do This
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 98.
Switch the TV's input between the cable box and cable	Press ANT to switch back and forth between the TV's VHF/UHF (scrambled channels) and CABLE (unscrambled) inputs.

Cable Box Only

For best results, use this connection if:

- □ Your cable company scrambles all channels, which requires you to use a cable box.
- □ You do not have a VCR. (If you have a VCR, see pages 24 and 26.)

With this connection you can:

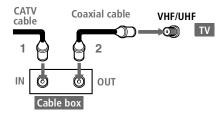
□ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF jack. (You must first program the remote control for your specific cable box.)

About Using This Connection with Dual Picture (Twin View, etc.) Features

With this connection, all channels come into the TV through your cable box and only one unscrambled signal is sent to the TV, so you cannot use the dual picture features. If some of your channels are scrambled, but others are not, consider using the "Cable Box and Cable" connection on page 21 instead.

To connect the cable box

- 1 Connect the CATV cable to the cable box's input jack.
- **2** Use a coaxial cable to connect the cable box's output jack to the TV's VHF/UHF jack.
- **3** Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.



To Do This	Do This
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the remote control to operate the cable box	Press SAT/CABLE FUNCTION.
Prevent the accidental switching of TV channels	When using the cable box, you need the TV to stay on the channel the cable box is set to (usually channel 3 or 4). You can use the TV's Channel Fix feature to lock in a specific channel. For details, see "Using the Channel Menu" on page 98.

Connecting Optional Equipment

Use the directions in this section to connect the following optional equipment:

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Using the CONTROL S Feature	40

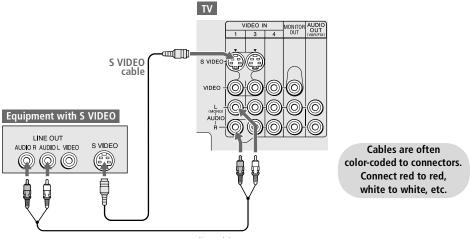
If you want to connect an i.LINK device, see "Connecting i.LINK Devices" on page 84.

About Using S VIDEO



If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

Example of an S VIDEO Connection



Audio cable

VCR and Cable

Using

S VIDEO jacks?

See page 23.

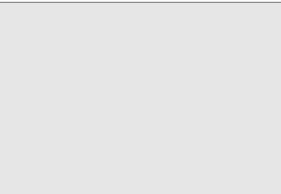
For best results, use this connection if:

□ Your cable company does not require you to use a cable box.

About Using This Connection with Dual Picture (Twin View, etc.) Features With this connection, you can use all the dual picture features.

To connect the VCR and cable

- 1 Connect the CATV cable to the VCR's VHF/UHF input jack.
- 2 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's CABLE jack.
- **3** Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.



To Do This	Do This
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Watch cable channels	Press TV/VIDEO repeatedly to select the cable input (CABLE in the illustration).
Set up the TV remote control to operate the VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the VCR	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the VCR.
Control VCR functions with the TV remote control	See "Operating a VCR" on page 51.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.

VCR and Cable Box

For best results, use this connection if:

Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.

About Using This Connection with Dual Picture (Twin View, etc.) Features With this connection, you can use all the dual picture features.

With this connection you can:

- Use the TV remote control to change channels coming through the cable box. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 49.)
- □ Use the TV remote control to change channels coming directly into the TV's CABLE jack. (The TV's tuner provides a better signal than the cable box.)
- Record channels coming through the cable box and channels coming directly into the TV.

To connect a VCR and cable box, you need:

- □ A splitter, which is a small, inexpensive device that you can purchase at your local electronics store.
- □ Three coaxial cables.
- □ One A/V cable or one S VIDEO cable with audio cables.

To connect the VCR and cable box

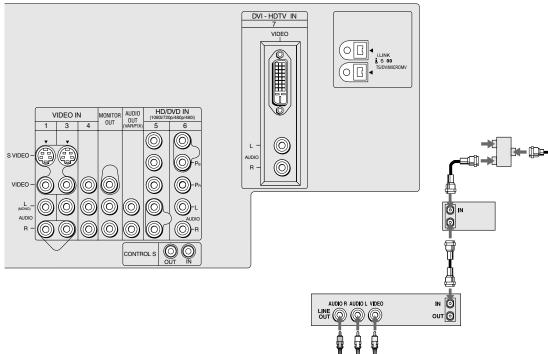
- 1 Connect the CATV cable to the single (input) jack of the splitter.
- **2** Use a coaxial cable to connect one of the splitter's two output jacks to the TV's CABLE jack.
- **3** Use a coaxial cable to connect the splitter's other output jack to the cable box's input jack.
- 4 Use a coaxial cable to connect the cable box's output jack to the VCR's RF input jack.
- **5** Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- **6** Use a coaxial cable to connect the VCR's RF output jack to the TV's VHF/UHF jack.
- 7 Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.





VHF/UHF

0



Setup

				-
Notes of	on Us	ina T	his Co	onnection

To Do This	Do This
Watch cable (unscrambled) channels	Press TV/VIDEO repeatedly to select the cable input (CABLE in the illustration).
Watch cable box (scrambled) channels	Turn on the VCR and tune it to the channel the cable box is set to (usually channel 3 or 4). Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration). Use the cable box to change channels.
Watch the VCR	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the cable box or VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the remote control to operate the cable box or VCR	For the cable box, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the VCR.
Control specific cable box and VCR functions with the TV remote control	See "Operating a Cable Box" on page 52 and "Operating a VCR" on page 51.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.

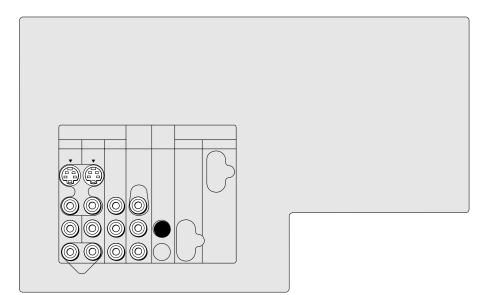
Two VCRs for Tape Editing



Connecting two VCRs lets you record from one VCR to the other. By connecting them as shown below, you can view (monitor) what is being recorded.

To connect two VCRs for tape editing

- 1 Use an A/V cable to connect the playback VCR's A/V output jacks to the TV's A/V input jacks.
- **2** Use an A/V cable to connect the recording VCR's A/V input jacks to the TV's MONITOR OUT jacks.



To Do This	Do This		
View (monitor) what is being recorded	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration above).		
Set up the TV remote control to operate the VCR(s)	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 49-50.		
Activate the TV remote control to operate the VCR(s)	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the VCR.		
Control VCR functions with the TV remote control	See "Operating a VCR" on page 51.		
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.		

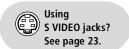
Satellite Receiver

To connect a satellite receiver

- 1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- **2** Use an A/V cable to connect the satellite receiver's A/V output jacks to the TV's A/V input jacks.
- **3** Connect a cable from your cable or antenna to the TV's CABLE or VHF/UHF jack.
- 4 Run the Auto Setup program, as described in "Setting Up the Channel List"

To Do This	Do This
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the satellite receiver input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver	If you have a non-Sony satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the satellite receiver	Press SAT/CABLE FUNCTION.
Control satellite receiver functions with the TV remote control	See "Operating a Satellite Receiver" on page 51.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103- 104.

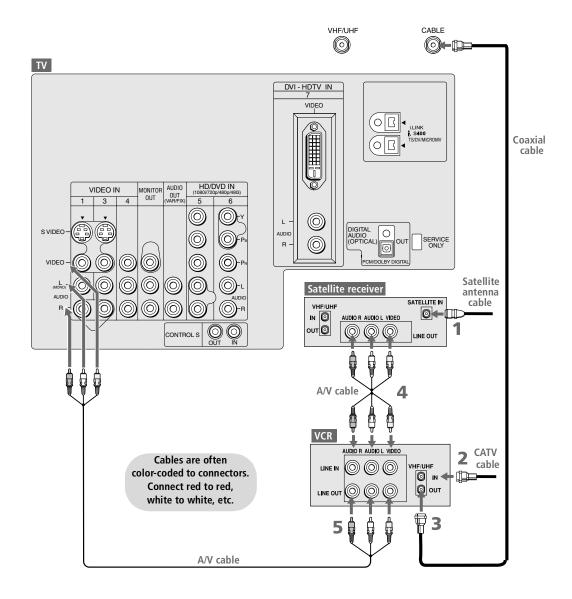
Satellite Receiver and VCR



To connect a satellite receiver and VCR

- 1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 2 Connect the CATV cable to the VCR's VHF/UHF input jack.
- 3 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's CABLE jack.
- 4 Use an A/V cable to connect the satellite receiver's A/V output jacks to the VCR's A/V input jacks.
- **5** Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- **6** Run the Auto Setup program, as described in "Setting Up the Channel List" on page 41.

To Do This	Do This
Watch the satellite receiver	Press TV/VIDEO repeatedly to select the VCR input (VIDEO 1 in the illustration).
	The VCR may need to be turned on and set to the satellite receiver input.
Watch the VCR	Press TV/VIDEO repeatedly to select the input to which the VCR is connected (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver or VCR	If you have a non-Sony VCR or satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the satellite receiver or VCR	For the satellite receiver, press SAT/CABLE FUNCTION. For the VCR, open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the VCR.
Control satellite receiver and VCR functions with the TV remote control	See "Operating a Satellite Receiver" on page 51 and "Operating a VCR" on page 51.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.



DVD Player with Component Video Connectors

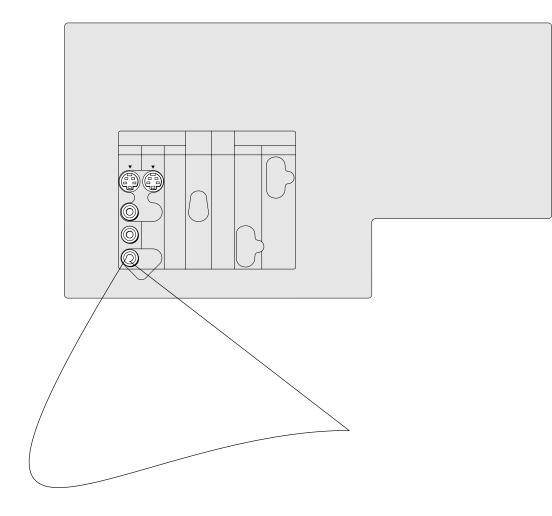
For best results, use this connection if your DVD player has component video (Y, PB, PR) jacks.

To connect a DVD player with component video connectors

1 Use a component video cable, or three composite video cables, to connect the DVD player's Y, PB and PR jacks to the Y, PB and PR jacks (VIDEO 5) on the TV.

The Y, PB and PR jacks on your DVD player are sometimes labeled Y, CB and CR, or Y, B-Y and R-Y. If so, connect the cables to like colors.

2 Use an audio cable to connect the DVD player's audio output jacks to the TV's VIDEO 5 audio input jacks.



Notes on Using This Connection

To Do This	Do This
Watch the DVD player	Press TV/VIDEO repeatedly to select the DVD input (VIDEO 5 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the DVD player	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the DVD player.
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 52.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.

You cannot record the signal from any equipment connected into the Y, PB, PR jacks.

DVD Player with S VIDEO and Audio Connectors

Use this connection if your DVD player does not have component video (Y, PB, PR) jacks.

To connect a DVD player with A/V connectors

- 1 Use an audio cable to connect the DVD player's audio output jacks to the TV's audio input jacks.
- 2 Use an S VIDEO cable to connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.



Camcorder

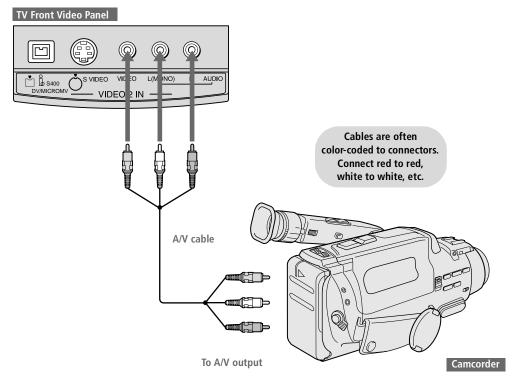


For easy connection of a camcorder, the TV has front A/V input jacks. If you prefer, however, you can connect the camcorder to the TV's rear A/V input jacks.

If your camcorder is equipped with an i.LINK jack, see "Using i.LINK" on page 83.

To connect a camcorder

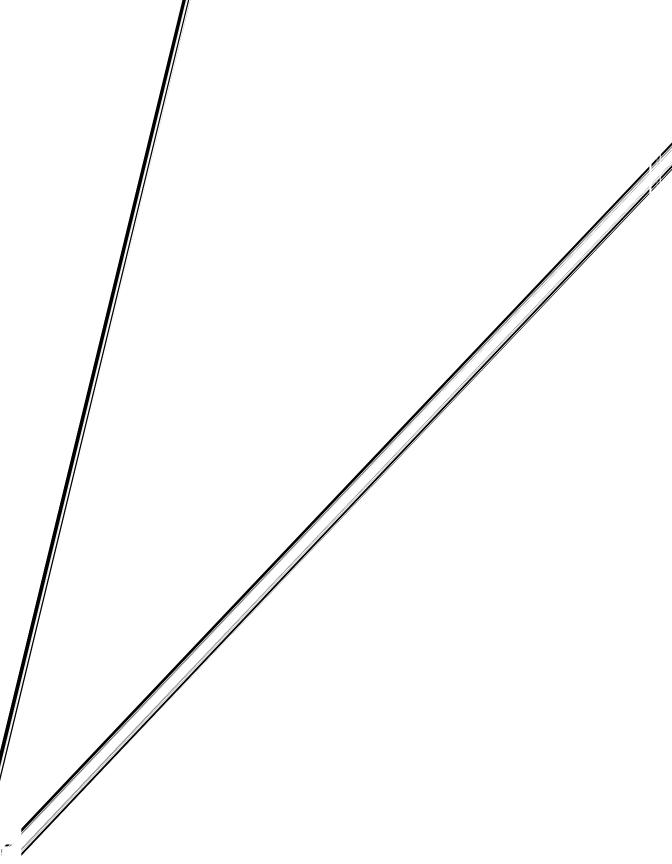
- 1 Open the front video panel, as shown on page 13.
- 2 Use A/V cables to connect the camcorder's A/V output jacks to the TV's A/V input jacks.

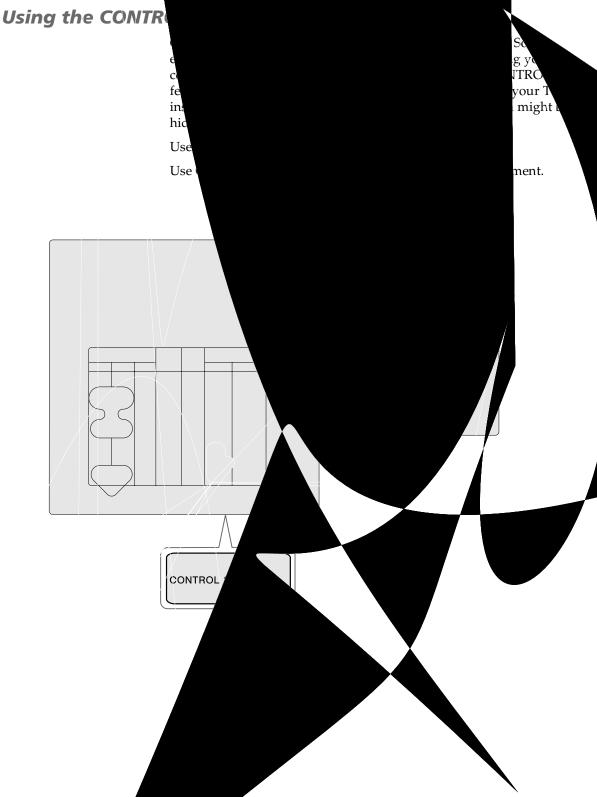


If you have a mono camcorder, connect its audio output jack to the TV's L MONO audio jack.

Notes on Using This Connection

To Do This	Do This
Watch the camcorder	Press TV/VIDEO repeatedly to select the camcorder input (VIDEO 2 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on pages 103-104.





Setting Up the Channel List

After you finish connecting the TV, you need to run the Auto Program feature, which automatically creates a list of available analog and digital channels. The Auto Program screens appear when you turn on your TV for the first time after hooking it up.

Using Auto Program	To run Auto Program the first time you turn on your TV 1 Press POWER to turn on the TV.
	The Initial Setup screen appears.
	2 Using the joystick on the remote control, move the highlight to the desired language, then press ⊕ to select that language.
	3 When prompted to start Auto Program, press \oplus to select Yes.
	Auto Program takes several minutes to complete. A progress bar is displayed while the channel list is being created.
	To run Auto Program again at a later time Use the Auto Program feature as described on page 98.
	To add individual digital channels
	□ Use the Digital Channel feature as described on page 98.
	To reset the TV to factory settings
	1 Press POWER to turn on the TV.
	2 Hold down RESET on the remote control.
	3 Press TV POWER on the TV. (The TV will turn itself off, then back on.)
	4 Release RESET.

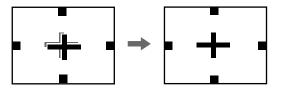
Adjusting the Convergence Automatically (Flash Focus)

The projection tube image appears on the screen in three colors (red, green and blue). If they do not converge, the color is poor and the picture blurs. Before you use your TV, be sure to adjust the convergence. The Flash Focus feature allows you to adjust the convergence automatically.

It is recommended that you perform Flash Focus about 30 minutes after the TV is first turned on.

- 1 Tune to a TV or cable TV program.
- **2** Press the FLASH FOCUS button on the front panel of the TV (see page 15).

The cross pattern appears and Flash Focus begins to work.



The adjustment is completed when the TV picture returns.

To Perform Additional Fine Manual Adjustments Use the Manual Convergence feature, described on page 43.

Notes on Flash Focus

- You cannot perform any other functions until Flash Focus has completed its cycle. If you perform any other operation while Flash Focus is in progress, the Flash Focus operation is canceled.
- □ Flash Focus will not set the TV's convergence to the factory setting. To do this, press RESET while in Manual Convergence mode.

Ϋ́

You can also access Flash

Focus in the Setup menu. For

details, see page 103.

Adjusting the Convergence Manually

The Convergence feature gives you more control over the picture's convergence than the Flash Focus feature, allowing you to fine-tune the convergence.

- **1** Press MENU to display the Menu.
- 2 Move the joystick \blacklozenge or \blacklozenge to highlight the Setup icon and press
- **3** Move the joystick to highlight Convergence and press

A pattern of white crosses appears, with a yellow around one of the crosses. Aligned crosses (which do not need adjustment) look white and have little or no red or blue showing. Crosses that are not aligned show red or blue shades beyond their edges.

You can scroll up and down through the 9 x 7 field of crosses to manually converge all portions of the screen.

- 4 Using the joystick, move the to surround a cross that you want to adjust. Press . The changes to red.
- 5 If the cross that you selected has red edges, move the joystick until the red image is replaced with a white cross. Once you have finished this (or the cross does not have red edges), press . The changes to blue.
- **6** If the cross you selected has blue edges, move the joystick until the blue image is replaced with a white cross. Once you have finished this, press . The changes to yellow again.
- 7

Notes on Adjusting the Convergence Manually

- □ Allow the TV to warm up for about 30 minutes before you adjust the convergence.
- □ For best results, stand about 3 to 5 feet back from the picture when adjusting the convergence. Begin with the crosses in the center area of the screen and, once those are adjusted, move to the crosses on the edges of the screen.
- You can make separate adjustments to each wide mode:
 Full/Normal, Zoom, Wide Zoom, and Memory Stick/1080i high-definition input. (These features share a common convergence mode.) The cross pattern looks different in each of these, but the adjustment procedure is the same. Press the WIDE MODE button on the remote to toggle through the wide mode screens.
- □ To optimize the conditions for convergence adjustment, in the Video Menu, set Mode to Pro or Movie and lower the Picture level settings (see page 92). You can reset the adjustments by pressing the RESET button on the remote control.

Using the Remote Control

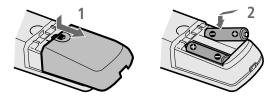
Overview

This chapter describes how to set up, program, and use the TV's remote control.

Торіс	Page
Inserting Batteries	45
Button Descriptions	
Outside Panel	46
Inside Panel	48
Programming the Remote Control	49

Inserting Batteries

- 1 Remove the battery cover from the remote control.
- 2 Insert two size AA (R6) batteries (supplied) by matching the and terminals on the batteries to the diagram inside the battery compartment.
- **3** Replace the battery cover.



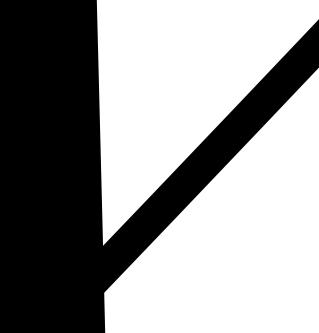
Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.

Handle the remote control with care.

Avoid dropping it, getting it wet, placing it in direct sunlight, near a heater, or where the humidity is high.

Button Descriptio

Dutside Panel



Button	Description
16 POWER	SAT/CABLE: Press to turn on and off the satellite receiver
Buttons	or cable box.
	TV: Press to turn on and off the TV.
17 FUNCTION Buttons	The indicator lights up momentarily when pressed to show which equipment the remote control is operating:
	SAT/CABLE: Press to have the remote control operate the satellite receiver or cable box.
	TV: Press to have the remote control operate the TV.
18 PIC MODE	Press repeatedly to cycle through the available video picture modes: Vivid, Standard, Movie, Pro. Also available in the Video Menu. For details, see "Selecting Video Options" on page 92.
19 0 - 9 ENTER	Press 0 - 9 to select a channel; the channel changes after 3 seconds. Press ENTER to change channels immediately.
20 TWIN VIEW	Press to turn on and off Twin View. For details, see pages 57-59.
21 CH +/-	Press to scan through channels. To scan quickly through channels, press and hold down either CH button.
22 MEMORY STICK	Press to display the Memory Stick Menu. For details, see "Using the Memory Stick Viewer" on page 67.
23 DRC PALETTE	Press repeatedly to cycle through the three Custom DRC Palette options. Also available in the Video Menu. For details, see "Selecting Video Options" on pages 92-93.
24 DISPLAY	Press once to display the current channel number, current time, and program information banner (if set). Press again to turn Display off.
25 GUIDE	Press to display the digital program guide. For details, see page 63.
26 JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
27 EXIT	Press to exit the on-screen menu or display and return to normal viewing.
28 FREEZE	Press to freeze the window picture. Press again to restore the picture. For details see page 61.

Programming the Remote Control

The remote control is preset to operate Sony brand video equipment.

Sony Equipment	Switch Position on Remote Control	Programmable Code Number
i.LINK	i.LINK/AV1	901
8 mm VCR	AV2	302
VHS VCR	AV3	301
DVD player	DVD	751

If you have video equipment other than Sony brand that you want to control with the TV's remote control, use the following procedure to program the remote control.

- In the equipment must have infrared (IR) remote capability in order to be used with the remote control.
- 1 Turn to the list of "Manufacturer's Codes" on page 50, and find the three-digit code number for the manufacturer of your equipment. (If more than one code number is listed, use the number listed first.)
- **2** Open the remote control and set the A/V slide switch to i.LINK/AV1, AV2, AV3, or DVD. Then close the remote control.

If the device that you wish to program is connected through i.LINK, you must set the slide switch to AV1.

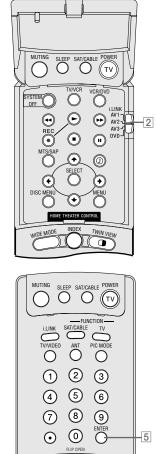
- 3 Press CODE SET.
- 4 Enter the three-digit manufacturer's code number.
- **5** Press ENTER.

You must do step 5 within 10 seconds of step 4, or you must redo steps 3 through 5.

6 To check if the code number works, aim the TV's remote control at the equipment and press the POWER button that corresponds with that equipment. If it responds, you are done. If not, try using another code listed for that manufacturer.

Notes

- □ If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- □ If you enter a new code number, the code number you previously entered at that setting is erased.
- In some cases, you may not be able to operate your equipment with the supplied remote control. In such cases, use the equipment's own remote control unit.
- □ Whenever you remove the batteries to replace them, the code numbers may revert to the factory setting and must be reset.



INDEX

MENU

-+-

EMORY STICK

(a)

SONY

TV

EXIT

CODE SET

3-

TWIN VIEW

÷

PALETTE

JUMP

Manufacturer's Codes

VCRs

VCRS	Codo
Manufacturer	Code 201, 202, 202
Sony Admiral	301, 302, 303 327
	327
(M. Ward)	220.244
Aiwa	338, 344
Audio	314, 337
Dynamic	
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
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General	329, 304, 309
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Go Video	322, 339, 340
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Instant Replay	309, 308
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	337
JVC	314, 336, 337,
5	345, 346, 347
Kenwood	314, 336, 332,
	337
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· · · ·	335, 338
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Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
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MGA	326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
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Opunius	521

Manufacturer	Code
Orion	317
Panasonic	308, 309, 306,
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Pentax	305, 304
Philco	308, 309
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SV2000	338
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Teac	314, 336, 338,
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Toshiba	312, 311
Wards	327, 328, 335,
	331, 332
Yamaha	314, 330, 336,
71	337
Zenith	331
Laserdisc Players	
Manufacturer	Code
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Panasonic	704, 710
Pioneer	702
i.LINK Controls	
Function	Code
Rewind, Play,	901
Fast-forward,	
Record, Stop,	
Pause	

DVD Players Manufacturer Code Sony 751 Apex 762 General 755 Electric Hitachi 758 JVC 756 Magnavox 757 Mitsubishi 761 Oritron 759 Panasonic 753 Philips 757 Pioneer 752 RCA/Proscan 755 Samsung 758 Toshiba 754 Zenith 760

Cable Boxes

Manufacturer	Code
Sony	230
Hamlin/Regal	222, 223, 224,
	225, 226
Jerrold/G. I./	201, 202, 203,
Motorola	204, 205, 206,
	207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific	209, 210, 211
Atlanta	
Tocom	216, 217
Zenith	212, 213

Satellite Receivers

Manufacturer	Code
Sony	801
Dish Network	810
Echostar	810
General	802
Electric	
Hitachi	805
Hughes	804
Mitsubishi	809
Panasonic	803
RCA/	802, 808
PROSCAN	
Toshiba	806, 807

Using Other Equipment with Your TV Remote Control

All Equipment

To Do This	Do This
Switch the TV's input to the VCR, DVD player, or other connected equipment	Press TV/VIDEO repeatedly to cycle through the video equipment connected to the TV's video inputs.
Set up the TV remote control to operate non-Sony equipment	You must program the remote control the first time you use it. See "Programming the Remote Control" on pages 49 to 50.

Operating a VCR

To Do This	Press
Activate the remote control to operate the VCR	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the VCR.
Change channels	CH +/-
Record	and simultaneously
Play	
Stop	
Fast forward	>>
Rewind the tape	44
Pause	11
Search the picture forward or backward	▶▶ or ◀◀ during playback (release to resume normal playback)
Change input mode	TV/VCR

Operating a Satellite Receiver

To Do This	Press
Activate the remote control	SAT/CABLE FUNCTION
to operate the satellite	
receiver	
Turn on/off	SAT/CABLE POWER
Select a channel	0-9, ENTER
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY
Display SAT Guide	GUIDE
Display SAT Menu	MENU
Move highlight (cursor)	Move the joystick 🛧 🕈 🔶 🍝
Select item	

Operating a Cable Box	To Do This	Press
20/	Activate the remote control to operate the cable box	SAT/CABLE FUNCTION
	Turn on/off	SAT/CABLE POWER
	Select a channel	0-9, ENTER
	Change channels	CH +/-
	Back to previous channel	JUMP
Operating a DVD		
Player	To Do This	Press
	Activate the remote control to operate the DVD	Open the outside cover, as shown on page 48 Then set the A/V slide switch to the position you programmed for the DVD player.
	Play	
	Stop	
	Pause	П
	Step through different tracks of the disc	>> to step forward or < to step backward
	Step through different chapters of a video disc	CH+ to step forward or CH- to step backward
	Display the DVD player Menu (Setup)	MENU (inside panel)
	Display the DVD Menu	DISC MENU
	Move highlight (cursor)	* * * *
	Select item	SELECT
	Menu (Setup) Display the DVD Menu Move highlight (cursor)	DISC MENU

Operating an MDP (Laserdisc Player)

To Do This	Press
Activate the remote control to operate the MDP	Open the outside cover, as shown on page 48. Then set the A/V slide switch to the position you programmed for the MDP player.
Play	
Stop	
Pause	11
Search the picture forward or backward	▶ or ◀◀ during playback (release to resume normal playback)
Search a chapter forward or backward	CH +/-

Using the Features

Overview

This chapter describes how to use the features of your TV.

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Using the Scrolling Index	55
Using Wide Mode	56
Using Twin View	57
Using Favorite Channels	60
Using the Freeze Function	61

Watching TV

For a complete list of all the functions of the remote control, see pages 45-50.

To Do This	Do This
Activate the remote control to operate the TV	Press TV FUNCTION
Turn on/off the TV	Press TV POWER
Tune directly to a channel	To tune to analog channels, press 0-9 and then ENTER.
	For digital subchannels, press 0-9, \bigcirc , press 0-9 again, and then ENTER.
	For example, to select subchannel 2.1, press $2 + \bigcirc +1$, and then press ENTER.
	You can also select digital channels using the digital program guide. See page 63 for details.
Adjust the volume	Press VOL +/-
Mute the sound	Press MUTING (press again to unmute)
Alternate back and forth	Press JUMP
between two channels	The TV alternates between the current channel and the last channel tuned.
Display the current channel number (and other information)	Press DISPLAY once to display the channel number, current time, and channel label (if set). Press DISPLAY again to turn Display off.
Switch the TV's input to the VCR, DVD player, or other connected equipment	Press TV/VIDEO repeatedly to cycle through the video equipment connected to the TV's video inputs.
Change video and audio options, customize the TV's setup, set parental controls, and more	Press MENU to display the Menu. For details, see "Using the Menus" on page 91.
Switch the TV's input between sources connected to the TV's VHF/UHF and CABLE inputs	Press ANT to alternate between sources connected to the TV's VHF/UHF and CABLE inputs.
Switch the TV's input to a connected i.LINK device	Press i.LINK to display a list of available i.LINK devices, and select the desired device from the list. See page 86 for details.

Using the Scrolling Index

The Scrolling Index lets you select programs from a series of preview windows that scroll along the right side of the screen.

1 Press INDEX.

The Scrolling Index appears, with the currently selected program in the main (left) window, and four scrolling video pictures in the right.



Live preview window

As each picture on the right scrolls to the live preview window, it changes briefly from a frozen video picture to a live video. The right side continues to scroll through the entire channel list.

- **2** To change the direction of the scrolling, move the joystick **•** or **•**.
- To change the speed of the scrolling, move and hold the joystick
 ▲ or ♥.
- 4 To change a frozen video picture to a live video, move the joystick ♠ or ♥ to highlight the picture, then press ⊕.
- 5 To move the live video (from step 4) from the right to the main (left) window of the Scrolling Index, press ④ again.

To exit the Scrolling Index

Press INDEX.

Factors Affecting Scrolling Index

- □ Scrolling Index feature does not function if you use a cable box to view all channels.
- Digital sources, as well as any sources connected to the VIDEO 5, VIDEO 6, VIDEO 7 inputs, display in the left window, but not in the right windows.
- □ Scrolling Index does not function if parental controls are set (see page 100).

Using Wide Mode

You can also access the Wide Mode settings in the Screen menu. For details, see page 96.

Example



Wide Zoom





Normal

Wide Screen mode lets you watch 4:3 normal broadcasts in several Wide Screen modes (16:9 aspect ratio).

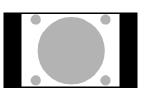
- When viewing high-definition programs broadcast in 720p/1080i, it is not possible to change between Wide Screen modes.
- Press WIDE MODE repeatedly to toggle through the following Wide Mode settings.

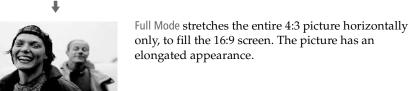
Description

Wide Zoom enlarges the center portion of the 4:3 picture proportionately; however, only the left and right edges of the screen are stretched to fill the 16:9 screen. The picture has a normal appearance, as much as possible.

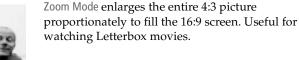


Normal returns the 4:3 picture to its original size. Black bars are visible at left and right sides to fill the 16:9 screen.













Zoom

When you change channels or inputs, the Wide Mode settings revert to the 4:3 Default setting in the Screen menu. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off. For details, see page 97.

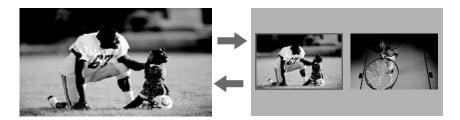
Using Twin View

Twin View lets you see two pictures from two sources — from an antenna, VCR, DVD, etc. — on the screen at the same time. You hear the sound from only one of the sources at a time, but you can choose which source's sound is selected. You can also change the relative size of each of the pictures.

Displaying Twin Pictures

- 1 Tune the TV to a working channel.
- **2** Press **①**.

A second picture appears. The active picture is highlighted in blue.



To cancel Twin View and watch the active picture □ Press ① or ⊕.

Factors Affecting Twin View

- If you use a cable box to view all channels, the same channel appears in both windows of Twin View because the cable box unscrambles only one channel at a time.
- If you use a cable box, you can view the cable box output in one Twin View window and view a different source (such as a VCR or DVD player) in the second window by using the TV/VIDEO button. For details, see "Connecting Optional Equipment" on page 23.
- Digital sources, as well as any sources connected to the VIDEO 5, VIDEO 6, VIDEO 7 inputs, display in the left window, but not in the right.
- □ If you are viewing a 4:3 source and a 16:9 enhanced source (such as a DVD) side by side in Twin View, the 4:3 source appears larger.
- □ Twin View does not display channels that are blocked by parental settings (see page 100).

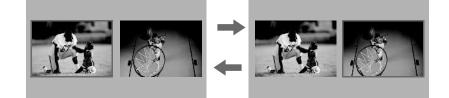
Activating the Picture

To activate the picture in the right window

 $\Box \quad Move the joystick \blacklozenge.$

To activate the picture in the left window

□ Move the joystick **◆**.



Functions Available in the Active (Highlighted) Window

To Do This	Do This
Tune directly to a channel	To tune to analog channels, press 0-9 and then ENTER or Press CH+/-
	For digital subchannels, press 0-9, \bigcirc , press 0-9 again, and then ENTER.
	For example, to select subchannel 2.1, press $2 + \bigcirc +1$, and then press ENTER.
Adjust the volume	Press VOL +/-
Mute the sound	Press MUTING (press again to unmute)
Switch the TV's input between sources connected to the TV's VHF/UHF and CABLE inputs	Press ANT
Switch the TV's input between sources connected to the TV's A/V inputs	Press TV/VIDE0
Change the picture size	Move the joystick ♠ or ♥. (For details, see "Changing the Picture Size" on page 59.)

Changing the Picture Size

The zoom feature lets you vary the relative size of the left and right pictures.

- 1 Move the joystick ← or → to activate the picture that you want to resize.
- **2** Move the joystick **•** to enlarge the picture.
- 3 Move the joystick ***** to make the picture smaller.



When you adjust the picture sizes, the TV memorizes the change. The next time you use the Twin View function, the memorized sizes appear.

Using Favorite Channels

The Favorite Channels feature lets you select programs from a list of up to 16 favorite channels that you specify.

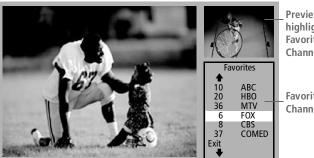
Creating a List of Favorite Channels

For details on using the Channel Menu, see page 98.

- 1 Press MENU to display the Menu.
- 2 Move the joystick • or • to highlight the Channel icon and press ⊕.
- 3 Press (+) to select Favorite Channels.
- 4 Move the joystick ♠ or ♥ to highlight a Favorite Channel number (1-16) and press \oplus .
- 5 Move the joystick ♠ or ♥ to highlight a channel you want to assign to the Favorite Channel number. A preview of the highlighted channel appears in the upper right of the screen. Press (+) to select that channel as a Favorite Channel.

Digital channels are displayed as a black box in the preview window.

- 6 To add more channels to your favorites list, repeat steps 4-5. To clear a Favorite Channel, move the joystick ♠ or ♥ to highlight the channel you want to clear. Press 🕀 and then press RESET.
- 7 Press MENU to exit the Menu.
- 1 Press FAVORITES. The Favorite Channels list appears.



Preview of hiahliahted Favorite Channel

- Favorite Channels
- Move the joystick ♠ or ♥ to highlight the channel you want to 2 watch.

A preview of the highlighted Favorite Channel appears.

3 Press 🕀 to select the channel you want to watch.

Displaying a List of Favorite Channels

ϔ To assign Channel Labels (e.g., ABC, HBO, MTV, etc.) to channel numbers, as shown at right, use the Channel Label feature in the Channel Menu (see page 99).

Using the Freeze Function

The FREEZE button allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

🖉 The Freeze feature is not available while you are using the Twin View.

- 1 When the program information you want to capture is displayed, press FREEZE.
- **2** The TV switches to Twin View mode and displays the "frozen" picture on the right, while the current program continues on the left.



3 To cancel and return to normal viewing, press FREEZE (or just tune to another channel).

Using the Digital Program Guide

Displaying the Digital Program Guide

This TV is equipped to show digital programming, if a digital signal is present. The digital program guide and menus let you review program information, select digital channels and subchannels, set up your TV's digital programming, and enable digital closed captioning.

🖉 Analog channels are not available in this guide.

To display the digital program guide:

- 1 Tune your TV to a digital channel by using the 0-9, \bigcirc , and ENTER buttons.
- **2** Press GUIDE on the TV's remote control. The digital program guide appears, with the currently selected program showing in the background.

The digital program guide and menus are not available while using multipicture functions (Twin View, Freeze, Scrolling Index, i.LINK, Memory Stick, or Favorite Channels).

> Program information in the guide is provided by the broadcasters. As a result, it may sometimes include only the channel number, without a program title or description.

Navigating the Digital Program Menus

Four digital menus are available on the digital program guide.

Digital Program Menu	See Page
Using the Guide Menu	64
Using the Program Options Menu	64
Using the Caption Vision Menu	65
Using the Digital Setup Menu	65

To navigate to these menus and through the available options:

- 1 Move the joystick $\bullet \bullet \bullet$ to navigate through the options.
- **2** Press \oplus to select the desired option.

Using the Guide Menu

The Guide menu allows you to select digital channels and subchannels from a dropdown list. This list also provides information about the current program being shown on each digital channel.



Subchannels are additional channels of programming broadcast simultaneously. For example, channel 4 might include three subchannels (4.1, 4.2, 4.3) that are showing programs at the same time.

(4.1, 4.2, 4.3) that are showing programs at the same time.

The Program Options menu allows you to customize the settings of the program on the currently tuned channel.

Option	Description
Alternate Video	Each program has a main video stream, and may have alternate video streams. This option allows you to switch among these alternate video streams.
Alternate Audio	Each program has a main audio stream (the audio that you hear when the channel is first tuned). This option allows you to switch among these alternate audio streams (e.g., for different languages).

Using the Program Options Menu

Using the Caption Vision Menu

The Caption Vision menu allows you to turn on/off digital closed captioning, and to modify how digital closed captioning is shown on your TV. Depending on the program, digital closed captioning will be available in a number of different languages, aspect ratios, and reading levels.

1 Use the joystick to select from the following six services. The service description, if available, applies to the currently tuned channel.

Option	Description
Off	Turns off closed captioning for digital programs
1 XXX YYY ZZZ	XXX = language (English, Spanish, French, etc.)
2 XXX YYY ZZZ	YYY = reader level (standard*, easy)
3 XXX YYY ZZZ	[–] ZZZ = aspect ratio (4:3, 16:9)
4 XXX YYY ZZZ	
5 XXX YYY ZZZ	 * When set to this option, the option name is not shown
6 XXX YYY ZZZ	

In Caption Vision menu only affects digital channels. For closed captioning on analog channels, see "Using the Setup Menu" on page 103.

Using the Digital Setup Menu

The Digital Setup menu lets you change the way your digital channels are displayed.

The following digital setup functions are available:

Option	Description
Add Digital Channels	This option allows you to add new digital channels for the currently active antenna mode (Cable or VHF/UHF).
	This option is useful if the number of digital channels that your TV is able to receive has recently been increased, but you do not want your TV to perform a full Auto Setup.
Channel Show/Hide	This option allows you to remove (hide) digital channels from the Digital Program Guide's list of channels and subchannels, as well as from channel surfing using CHANNEL +/ Hidden channels can still be directly tuned using 0-9 and \bigcirc .
Digital Signal Strength	Displays the current strength of the digital signal on VHF/UHF, to allow you to adjust your antenna for optimal reception. (Does not apply to digital cable channels.)
Digital Caption Setup	Allows you to customize digital closed captioning (see page 66 for details).

This option is the same as the "Digital Channels" option. See "Using the Setup Menu" on page 103.

Customizing Caption Vision

You can use the Digital Caption Setup menu to customize your TV's Caption Vision.

Select from the following options to change the visual characteristics of your TV's digital closed captioning. A preview window displays a sample as you scroll through each option.

Option	Description
Character Size	Small, Standard*, Large
Character Style	Style 1-7 (Style 4*)
Character Color	None, Color 1-8 (White*)
Edge Color	Color 1-8 (Black*)
Edge Type	None*, Raised, Depressed, Outline, Left Shadow, Right Shadow
Background Color	None, Color 1-8 (Teal, Transparent*)
Window Color	None*, Color 1-8

* Indicates factory default setting

Using the Memory Stick Viewer

About Memory Stick

SONY	
SONY	
	
▲ мв	MEMORY STICK

Memory Stick (sold separately) is a new, compact, portable, and versatile Integrated Circuit recording medium with a data capacity that exceeds that of a floppy disk. Memory Stick is specially designed for sharing digital data among Memory Stick compatible products such as digital cameras and digital video cameras. Because it is removable, Memory Stick can also be used for external data storage.

The Memory Stick Viewer on your TV allows you to view files that are stored on Memory Stick media. You can view:

- Digital photos (JPEG files)
- □ Movies (MPEG1 files)

You can also play slide show background music using MP3 files stored on your Memory Stick.

For more information about handling Memory Stick media, see "Notes on Using Memory Stick Media" on page 81.

Features

With the Memory Stick Viewer, you can:

- View photo (JPEG) and movie (MPEG1) files in a thumbnail index or Slide Show
- Set customized Slide Show options, including transitions and background audio
- □ Pan, zoom, and rotate photos
- □ Lock (protect) or delete files on the Memory Stick

 Memory Stick Media Memory Stick Duo Media Memory Stick Media with Memory Select Function Memory Stick PRO Media About Memory Stick PRO Media Memory Stick PRO media features vary by and are dependent upon
 Memory Stick Media with Memory Select Function Memory Stick PRO Media About Memory Stick PRO Media Memory Stick PRO media features vary by and are dependent upon
 Memory Stick PRO Media About Memory Stick PRO Media Memory Stick PRO media features vary by and are dependent upon
About Memory Stick PRO Media Memory Stick PRO media features vary by and are dependent upon
Memory Stick PRO media features vary by and are dependent upon
the design of host hardware devices. Memory Stick Pro in this television has been tested to support up to 1 GB media capacity and does not support high-speed transfer, MagicGate copyright protection technology, or access control security features. The Memory Stick Viewer is compatible with JPEG images taken with Sony digital still cameras and MPEG1 [*] movies taken with Sony
digital cameras and camcorders. In order to be viewable in the Memory Stick Viewer, the files must have the following file name extensions:
File Type Supported File Name Extensions
JPEG .jpg .jpeg
MPEG1 .mpg .mpeg

Information

Memory Stick, Memory Stick PRO, and MagicGate are trademarks of Sony Corporation.

68

Memory Stick

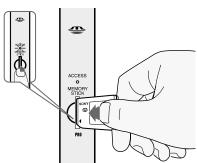
^{*}Some variations of MPEG1 movies may not play back correctly.

Inserting and Removing a Memory Stick

If you are using a Memory Stick Duo, see "Inserting the Memory Stick Duo" on page 70.

Inserting a Memory Stick

1 Locate the Memory Stick slot and insert the Memory Stick into the Memory Stick slot as illustrated below. When inserted properly, it should slide in with little resistance and click into place.



Be sure to insert the Memory Stick in the correct direction. If the Memory Stick is forced in the wrong way, it may become damaged.

Insert only Memory Stick media into the Memory Stick slot. Attempting to insert other objects into the slot may damage the TV.

To remove the Memory Stick, see "Removing a Memory Stick" on page 71.

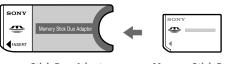
Inserting the Memory Stick Duo

Memory Stick Duo is a new, compact version of the standard-sized Memory Stick recording medium.



CAUTION: Inserting the Memory Stick Duo incorrectly may result in permanent damage to the Memory Stick Duo and the TV.

1 Before inserting a Memory Stick Duo into the TV's Memory Stick slot, you must first insert the Memory Stick Duo into an adapter (sold separately).

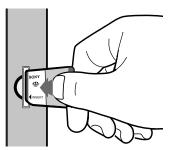


Memory Stick Duo Adapter

Memory Stick Duo

CAUTION: Inserting the Memory Stick Duo into the Memory Stick slot without the adapter may result in permanent damage to the Memory Stick Duo and the TV.

2 Insert the Memory Stick Duo and adapter as shown below.





CAUTION: Inserting the Memory Stick adapter backwards or upside down may result in permanent damage to the Memory Stick adapter and the TV.

To remove the Memory Stick Duo, see "Removing a Memory Stick" on page 71.

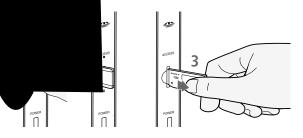
Removing a Memory Stick

y Stick

ne Memory Stick indicator is off. (When the light is ates that the TV is reading data from the Memory

Nemory Stick while a file is being accessed (when the ED on the TV's front panel is lit) may damage the Memory ents.

nory Stick gently into the slot, and then release it. Stick media is ejected.



- **3** Pull the Memory Stick completely out of the slot.
- To protect small children from injury from Memory Stick Media, remove all Memory Stick media from the TV's Memory Stick slot and store it in a safe location when it is not in use.



Using the Memory Stick Index

Turn on the TV and insert a Memory Stick that contains the photo or movie files you want to view. For details, see page 69.

If the Memory Stick Index does not appear, press the MEMORY STICK button on the remote control.

The Memory Stick Index appears, which displays thumbnail images of the files stored on the Memory Stick.



About the Lock and Movie Icons on the Thumbnail Images

- Indicates the thumbnail is a movie (MPEG1) file instead of a photo (JPEG) file.
- Indicates the thumbnail is locked. Locked files cannot be changed or deleted. For details, see "Protect" on page 80.

Using the Memory Stick Index

The following describes how to use the Memory Stick Index.

0	,
To Do This	Do This
Move the highlight to a photo or movie ([=]) thumbnail	Move the joystick 🛧 🕈 🗢 🏓.
Display the highlighted photo or movie file full screen	Press \bigoplus . For details, see "Viewing Photos" on page 74 and "Playing Movies" on page 77.
Display the next	1 Move the joystick \clubsuit to select \blacktriangledown .
page of thumbnails	2 Move the joystick * to display the next page of thumbnails.
Display the	1 Move the joystick \clubsuit to select \blacktriangledown .
previous or next	2 Move the joystick ← to select ◆.
page of thumbnails	3 To go to the previous page, move the joystick ♠. To go to the next page, move the joystick ♥.
Use the Memory	1 Move the joystick \clubsuit to select \blacktriangledown .
Stick menu bar to access additional	2 Move the joystick ← or → to select Slide Show, Folder, or Memory Stick.
options	3 Move the joystick ♠ or ♥ to select the option you want to change.
	For details on these options, see "Memory Stick Index Menu Bar Options" on page 79.
Move the highlight	1 Move the joystick \blacklozenge or \blacklozenge to select \blacktriangledown .
from the Memory Stick menu bar back to the thumbnails	2 Move the joystick ♠ to return to the currently displayed thumbnails, or ♥ to display the next page of thumbnails.
Exit Memory Stick Viewer	Press the MEMORY STICK button on the remote control.

Photo Menu Bar Options

The Photo menu bar lets you access additional photo viewing options.

To access the Photo menu bar

- 1 Move the joystick \leftarrow or \rightarrow to select Slide Show, View, or File.
- 2 Move the joystick to select the desired option.

Option	Description		
Index	Displays the Memory Stick Index, with the highlight on the thumbnail of the currently displayed photo. For details, see "Using the Memory Stick Index" on page 72.		
Slide Show	Displays the Slide Show menu. For details, see "Slide Show Menu Options" on page 79.		
View	Zoom/Pan	Allows you to magnify and pan across the photo. For details, see "Using Zoom and Pa on page 76.	
	Rotate	Allows you to rotate the photo in 90 degree increments clockwise or counterclockwise. I details, see "Using Rotate" on page 76.	
File	Information	Allows you to turn on or off the display of f information. Select On or Off.	
	Protect	Allows you to the protect the JPEG file from any changes. When a JPEG file is protected, cannot be rotated or deleted. Select On or Of	
	Delete	Deletes the JPEG file from the Memory Stick.You cannot delete a JPEG file that has been protected (or if the Memory Stick is locked).	

JPEG files that are protected are indicated by the Lock are indicated by the Lock and icon.

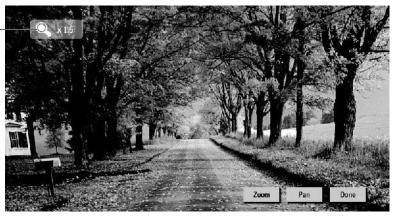
Using Zoom and Pan

To Zoom and Pan a photo

- 1 In the Photo menu bar, move the joystick to highlight View.
- 2 Move the joystick to highlight Zoom/Pan and press \oplus .
- 3 Specify the zoom center point by moving the joystick; then press ⊕ to set the center.

The Zoom and Pan controls are displayed.

Indicates Zoom increment



To Do This	Do This
Zoom in (increase magnification) or out (decrease magnification)	Move the joystick to highlight Zoom and press \oplus . Then move the joystick \clubsuit to zoom in or \clubsuit to zoom out.
	To stop using Zoom, press 🕀.
Pan (left, right, up, down)	(You can use Pan only when the photo is magnified using Zoom.)
	Move the joystick to highlight Pan and press ⊕. Then move the joystick
	To stop using Pan, press 🕀.
Exit the Zoom/Pan controls	Move the joystick to highlight Done and press \oplus .
Exit Memory Stick Viewer	Press the MEMORY STICK button on the remote control.

Using Rotate	 To Rotate a photo In the Photo menu bar, move the joystick to highlight View. Move the joystick to highlight Rotate. To rotate clockwise, move the joystick to highlight Clockwise and proces
	press \bigoplus . To rotate counterclockwise, move the joystick to highlight Counterclockwise and press \bigoplus .

The photo is rotated 90 degrees each time you press \oplus .

Movie Menu Bar Options

To access the Movie menu bar

- 1 Move the joystick to highlight Index in the Movie menu bar.
- 2 Move the joystick \leftarrow or \rightarrow to select Index, Slide Show, or File.
- **3** Move the joystick to select the desired option.

Option	Description		
Index	Displays the Memory Stick Index, with the highlight on the thumbnail of the currently displayed movie.		
Slide Show	Displays the Slide Show menu. For details, see "Slide Show Menu Options" on page 79.		
File	Information	Determines whether file information is displayed. Select On or Off.	
	Protect	Allows you to the protect the MPEG1 file from any changes. When an MPEG1 file is protected, it cannot be deleted. Select On or Off.	
	Delete	Deletes the MPEG1 file from the Memory Stick.You cannot delete an MPEG1 file that has been protected (or if the Memory Stick is locked).	

WPEG1 files that are protected are indicated by the Lock 🖙 icon.

Memory Stick Index Menu Bar Options

Slide Show Menu **Options**

Options	Option	Description		
	Start	Starts the Slide Show.		
The Slide Show menu is the same whether you select it from the Memory Stick Index (page 72), Photo (page 74), or Movie (page 77) menus.	Music	Allows you to select background audio to play during the Slide Show.		
		Off	No additional background audio is played during the Slide Show. Audio that is associated with the JPEG or MPEG1 files will play.	
		Play All	Plays all MP3 files on the Memory Stick. The Piano MP3 file is not played.	
		Piano	Plays the MP3 file stored in the TV's internal memory. (This file is indicated by a different color than the MP3 files on the Memory Stick.)	
		(List of MP3 Files)	Displays a list of all MP3 files found at the top level (root) of the Memory Stick. To show additional MP3 files stored in other folders on the Memory Stick, select Complete List.	
When you select Complete List, it may take a moment to display the list of all MP3 files.		Complete List	Displays a list of all available MP3 files. The list is sorted in alphabetical order, grouped by folder.	
	Transition Effect		o select an effect to be used when advancing to n the Slide Show.	
		Off	Uses a quick change, or cut.	
		Fade	Uses a cross fade.	
_		Wipe → Wipe ← Wipe ↑ Wipe ↓	Uses a linear sweep that moves across the screen, revealing the next image while covering the previous image.	
Some JPEG files may take longer to display than others, which may make it seem longer than the interval you selected for		Random	Randomly cycles through all Transition Effects.	
	Slide Duration	Allows you to specify a timed slide advance after a selected time interval. Select from 3 sec, 5 sec, 10 sec, 30 sec, 1 min, 5 min.		
Slide Duration.	Repeat	On	Slide Show continuously loops.	
		Off	Slide Show plays once through all files and ends.	

The Slide Show menu includes the following options:

Folder Menu	The Folder menu includes the following options:				
Options	Option	Description			
	Select Contents	Allows you to select different folders to view in the Memory Stick Viewer.			
		Digital Camera Folders	Selects all folders within the directories defined by the DCF rules used by Sony digital cameras (see page 81). JPEG and MPEG1 files in those directories are recognized even if they do not conform to the DCF file naming rules.		
34		Select a Folder	Allows you to access individual folders on the Memory Stick.		
Files that are protected are indicated by the Lock 🗪 icon.	Protect	Allows you to protect files from any changes. When a file is protected, it cannot be rotated or deleted. The Protect option affect files currently shown in the Memory Stick Index.			
		Protect All	Protects all files.		
		Protect None	Unprotects all files.		
	File Order	Allows you to change the order in which the Memory Stick files are displayed.			
The Rotate and Protect functions do not change the file's modification date.		Date Order	Displays files in chronological order by modification date.		
		Date Order Reverse	Displays files in reverse chronological order by modification date.		
		Alphabetical	Displays files in alphabetical order by filename.		
	Filter	Allows you to selectively display specific file types within the selected folder.			
		Show All	Displays all readable files.		
		Show Photos Only	Displays only photo (JPEG) files.		
		Show Movies Only	Displays only movie (MPEG1) files.		

Memory Stick Menu

The Memory Stick menu displays the current status of the Memory Stick, including total capacity, used capacity, and free capacity.

Notes on Using Memory Stick Media

About DCF File
NamesMost Sony brand digital still and video cameras automatically
record still photo and movie files using DCF compliant directory
and file names.If you selected the Digital Camera Folders option, as described on
page 80, you might want to have your digital camera's instruction
manual handy in order to check how files and directories are
organized for your specific model of digital camera.DCF stands for "Design Rules for Camera File Systems," which
are specifications established by the Japan Electronic Industry
Development Association (JEIDA).

Memory Stick Precautions

When using Memory Stick media, follow these precautions:

- To avoid permanent damage to still image data, do not turn off the TV or remove Memory Stick media from the insertion slot while data is being read (as indicated by the Memory Stick indicator light being on).
- □ Avoid touching the terminal of Memory Stick media or bringing it into contact with a metal object.
- Do not drop, bend, or submit Memory Stick media to external shock.
- Do not disassemble or modify Memory Stick media.
- □ Avoid getting liquid on Memory Stick media.
- □ Apply labels only within the designated label area.



- To avoid permanent damage to still image data, do not use or store Memory Stick media in a location subject to:
 - High temperature (such as near a heater or inside a hot car)
 - High humidity
 - Direct sunlight
 - □ Corrosive substances
 - Magnetic fields
 - □ Excessive dust
 - □ Static electricity or electric noise
 - Electric surges
- □ Store and carry Memory Stick media in its original case to ensure protection of stored data.
- □ Save a backup of stored data.

Using i.LINK

About i.LINK

This TV is equipped with i.LINK, which provides a secure digital interface to other digital home entertainment devices, such as digital VCRs, digital camcorders, set-top boxes, and other devices that also are equipped with i.LINK. i.LINK allows for the secure transfer of copyright-protected digital content between these devices and your digital television.

i.LINK is a trademark of Sony Corporation and used only to designate that a product contains an IEEE 1394 connector.

All products with an i.LINK connector may not communicate with each other.

Using i.LINK Cables

This TV has three S400 i.LINK terminals (one in the front panel, and two in the back panel). You can use the following i.LINK cables with this TV:



Sony Model	Length
VMC-IL4415	1.5 meters
VMC-IL4435	3.5 meters

🖉 Do not use cables other than the ones listed above.

Connecting i.LINK Devices

Before connecting this unit to i.LINK-compatible equipment, read the instruction manual of the i.LINK device to be connected.

To connect a digital i.LINK device (using only a digital signal)

1 Using an i.LINK cable (see page 83), connect the device's i.LINK jack to either of the TV's i.LINK jacks.

To connect an i.LINK device that supports an EIA-775A connection

- 1 Using an i.LINK cable (see page 83), connect the device's i.LINK jack to either of the TV's i.LINK jacks.
- **2** Using an A/V cable, connect the i.LINK device's A/V output jacks to the TV's VIDEO 3 A/V input jacks.

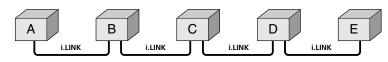
LINK cable should connect the TV and any given i.LINK device.

Notes on Using This Connection

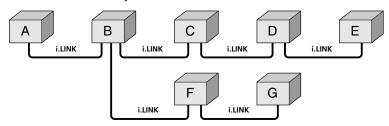
To Do This	Do This
Set up a digital i.LINK device	For digital i.LINK devices (devices that require only the i.LINK connection), no setup is necessary. The TV automatically recognizes the device as soon as the connection is made.
Set up an i.LINK device that supports an EIA-775A analog connection	 Connect analog A/V cables to the VIDEO 3 input (see page 84). Use the i.LINK Control Panel to activate the analog connection to your i.LINK device (see page 89).

Notes on Connecting i.LINK Devices

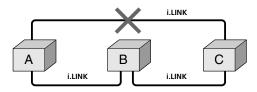
To connect two or more i.LINK devices, use i.LINK cables to connect them as shown below.



You can connect up to 63 i.LINK devices. However, the maximum number of cables in any serial route is 16.



Do not connect i.LINK devices in a way that creates a loop.



Connecting non-compatible devices, such as PCs or PC peripherals, may result in malfunctions.

Selecting an i.LINK Device

Before an i.LINK device can be viewed, it must first be selected via the i.LINK Device List.

1 Connect the i.LINK device that you wish to operate.

For instructions on connecting i.LINK devices, see page 84.

2 Press i.LINK on the remote control.



The TV (DTV), along with all devices connected by i.LINK to the TV, appear on the Device List.

Devices that are not supported by the TV appear on the Device List as "Other Device," but cannot be controlled using the TV's remote control or on-screen i.LINK Control Panel. For these devices, use the remote control supplied with the device.

- 3 Move the joystick ♠ or ♥ to navigate among the i.LINK-connected devices.
- I.LINK devices can be connected to one another and to the TV while the TV is powered on. The Device List will automatically update to include the newly-connected device. See page 84 for more information on connecting i.LINK devices.
- 4 Press ⊕ to select the desired device and display the device's i.LINK Control Panel. Use the i.LINK Control Panel to operate the selected device. For details, see page 87.

i.LINK functions are not available while using the following TV features: Twin View, Freeze, Scrolling Index, and Memory Stick.

Using the i.LINK Control Panel

After you select an i.LINK device using the Device List, the TV displays the i.LINK Control Panel, which allows you to use the TV's remote to control the selected i.LINK device.

- 1 If the i.LINK Control Panel is not already displayed, press i.LINK on the remote control.
- If i.LINK is pressed while the TV is displaying an analog or digital channel (not the i.LINK device), then the Device List will appear. Select the desired device from the list and press (+) to display the Control Panel.
- 2 Move the remote control's joystick ★ ★ ★ ★ to navigate through the options available in the i.LINK Control Panel.
- **3** Press \bigoplus to select a desired option.
- **4** Press EXIT to exit the Control Panel and view the i.LINK device full-screen.

✗ To exit i.LINK mode, select DTV from the Device List or press CH+/-.



The i.LINK Control Panel displays the signal from the TV to the left (if available), and the signal from the currently selected device to the right.

The DTV window appears only if the i.LINK menus were entered while watching a digital TV channel

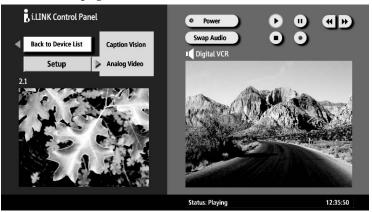
To Do This	Do This
Go to the Device List	Move the joystick to highlight Back to Device List and press \oplus .
Change the audio being played from the TV to the current selected device, and vice versa	Move the joystick to highlight Swap Audio and press $$. An icon appears next to the window that currently has sound.
Play a recording from the selected i.LINK camcorder or digital VCR	Move the joystick to highlight \mathbf{r} and press \mathbf{r} .
Fast-forward or rewind a recording from the selected i.LINK camcorder or digital VCR	Move the joystick to highlight \mathbf{w} or \mathbf{A} and press \mathbf{G} .
Record from TV to the selected i.LINK digital VCR	If the 💿 (record) button is available, move the joystick to highlight
	• and press \oplus .
Stop a recording from the selected i.LINK digital VCR	Move the joystick to highlight \bigcirc and press \bigoplus .
Turn the selected device power on and off	Move the joystick to highlight Power and press $\textcircled{ ext{ + }}$.
Setup the selected device	Move the joystick to highlight Setup and press (). For more details on Setup, see page 89.

Notes About Controlling i.LINK Devices

- You can control the functions of the selected i.LINK device by using the equivalent buttons on the TV's remote control. To program the remote control to operate i.LINK devices, see "Programming the Remote Control" on page 49.
- Some options on the i.LINK Control Panel may not be available, depending on the device being controlled.
- Only i.LINK-equipped digital camcorders and digital VCRs can be controlled directly through the i.LINK Control Panel.
- □ Not all functions are supported for all i.LINK devices.

i.LINK Setup

You can use the i.LINK Control Panel to access digital setup options, some of which are also available through the Digital Program Guide (described on page 63).



To Do This	Do This	
Set up the selected device	Move the joystick to highlight Setup and press \oplus .	
Set up Caption Vision	Once i.LINK Setup has been selected, move the joystick to Caption Vision, and press $$.	
	✗□ For details about setting up Caption Vision , see "Using the Caption Vision Menu" on page 65.	
Set up i.LINK Analog Video (Set-Top Box)	The TV is able to accept an analog signal from a selected set-top box. The set-top box must be EIA-775A compliant and must be connected to the TV's VIDEO 3 input. To associate the device with the TV's analog VIDEO 3 input, move the joystick to Analog Video and press $$. All EIA-775A-compliant devices will be shown in the list. Select the desired device from the list and press $$.	

Notes on i.LINK

- The TV can act as an i.LINK repeater, so that i.LINK signals can be relayed to another device even when the TV is powered off. To enable this feature, set the i.LINK Standby option to On using the Setup Menu as described on page 103.
- Parental Control settings apply to the signal from a selected device. For more details, see page 100.

Using the Menus

Overview

Press MENU to enter and

exit Menus.

The Menu gives you access to the following features:

Menu Icon	Description	Page
Video	Allows you to make adjustments to your picture settings. It also allows you to customize the Picture Mode based on the type of program you are viewing, select Advanced Video options, and more.	92
Audio	Offers enhanced audio options such as listening to second audio programming (SAP) or customizing the Effect of the sound on your TV.	94
Screen	Allows you to make Wide Mode adjustments and make changes to the screen's vertical center.	96
Channel	Allows you to set up a Favorite Channel list, run the Auto Program function, skip and label channels, and more.	98
Parent	Lets you control the viewing of programs based on their ratings.	100
Setup	Provides options for setting up your system, including selecting closed caption modes, setting the Timer, labeling video inputs, selecting the language of the on-screen menus, and more.	103

Navigating Through Menus

Menus include navigation help text that appears at the bottom of each Menu.

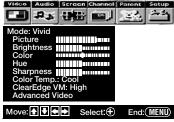
To Do This	Press
Display the Menu	MENU
Move through the Menus	* *
Move through the Menu options	* *
Select an option to change	\ominus
Change an option's settings	↑ † ♦ ♦
Select (confirm) changed setting	(+) or •
Exit the Menu	MENU



Using the Video Menu

To select the Video Menu

- 1 Press MENU.
- 2 Move the joystick ← or → to highlight the Video icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.



- 4 Move the joystick ★ ★ ★ ★ to change settings. Press ⊕ to select the changed setting.
- **5** Press MENU to exit the Menu.

To restore the factory default settings for the Video settings (excluding Advanced Video) of the Mode (Vivid, Standard, etc.) the TV is set to:

□ Press RESET on the remote control when in the Video Menu.

The Video Menu includes the following options:

Option	Description			
Mode <i>Customized</i>	Vivid	Select for enhanced picture contrast and sharpness.		
picture	Standard	Select for standard picture settings.		
viewing	Movie	Select to display a film-like picture.		
	Pro	Select to display a picture with minimum enhancements.		
Picture	Adjust to increase picture contrast and deepen the color, or decrease picture contrast and soften the color.			
Brightness	Adjust to brighten or darken the picture.			
Color	Adjust to increase or decrease color intensity.			
Hue	Adjust to increase or decrease the green tones.			
Sharpness	Adjust to sharpen or soften the picture.			
Color Temp.	Cool	Select to give the white colors a blue tint.		
White	Neutral	Select to give the white colors a neutral tint.		
intensity adjustment	Warm	Select to give the white colors a red tint (NTSC-Standard).		
ClearEdge VM Velocity Modulation	Sharpens picture definition to give every object a sharp, clean edge. Select from High, Medium, Low, Off.			

Selecting Video Options

To change from one Mode to another, use the PIC MODE button on the remote control.

You can alter the Video Menu settings (Picture, Brightness, Color, etc.) for each Mode.

	Option	Description		
To change quickly from one DRC Mode to another, use the	Advanced Video	Select Program to choose among the DRC Mode and DRC Palette options while viewing NTSC sources.		
DRC MODE button on the remote control.		DRC Mode	density, fo	nigh-resolution picture with 4x r high quality sources (i.e., DVD ellite receiver).
			Interlaced	Recommended for moving pictures.
🛱 Advanced Video options are			Progressive	Recommended for still images and text.
not available (grayed out) when watching 480p, 720p, and 1080i sources.			CineMotion	Provides an optimized display by automatically detecting film content and applying a reverse 3-2 pulldown process. Moving pictures will appear clearer and more natural-looking.
To change quickly from one DRC Palette to another, use the DRC PALETTE button on the remote control.		DRC Palette	(Reality) a three inpu create one cable inpu optimize y switch am the DRC PA	u to customize the level of detail nd smoothness (Clarity) for up to t sources. For example, you can Custom setting to optimize your tt's picture, and create another to your DVD player's picture. You can ong the three Custom settings using LETTE button on the remote control.
 For best results, adjust the Reality by moving the joystick ▲ until you are satisfied with the level of detail. Then adjust the Clarity by moving the joystick ← until you have a smooth image. 	Custo [26] ^{>} ti ^B ^B ^C Cla	m 1	Custon The D 2 Move the m along more right becon 3 To say	the joystick to highlight Custom 1, in 2, or Custom 3 and then press \bigoplus . PRC Palette appears. The joystick to adjust the position of arker (\bigoplus). As you move the \bigoplus higher the Reality axis, the picture becomes detailed. As you move the \bigoplus to the along the Clarity axis, the picture mes smoother. We the setting, press \bigoplus .

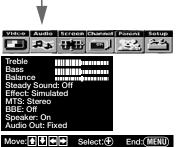
To return the Custom options to the default factory settings, press the RESET button.



Using the Audio Menu

To select the Audio Menu

- 1 Press MENU.
- 2 Move the joystick ← or → to highlight the Audio icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.



- 4 Move the joystick ★ ★ ★ ★ to change settings. Press ⊕ to select the changed setting.
- **5** Press MENU to exit the Menu.

To restore the factory default settings for Treble, Bass, and Balance

□ Press RESET on the remote control when in the Audio Menu.

The Audio Menu includes the following options:

Option	Description			
Treble	Adjust to d	Adjust to decrease or increase higher-pitched sounds.		
Bass	Adjust to d	ecrease or increase lower-pitched sounds.		
Balance	Adjust to e	mphasize left or right speaker balance.		
Steady Sound	On	Select to stabilize the volume.		
	Off	Select to turn off Steady Sound.		
Effect	TruSurround	Select for surround sound (for stereo programs only).		
	Simulated	Adds a surround-like effect to mono programs.		
	Off	Normal stereo or mono reception.		
MTS Enjoy stereo, bilingual and mono programs	Stereo	Select for stereo reception when viewing a program broadcast in stereo.		
	Auto SAP	Select to automatically switch the TV to second audio programs when a signal is received. (If no SAP signal is present, the TV remains in Stereo mode.)		
	Mono	Select for mono reception. (Use to reduce noise during weak stereo broadcasts.)		
BBE	On	Select to give sound more impact by compensating for phase effects in speakers.		
	Off	Select for normal stereo or mono reception.		

To change quickly from one Effect to another, use the Ø

button on the inside panel of the

Selecting Audio

Options

remote control.

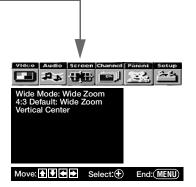
Option	Description	
Speaker	On	Select to turn on the TV speakers.
	Off	Select to turn off the TV speakers and listen to the TV's sound only through your external audio system speakers.
Audio Out Easy control of volume adjustments	This option to Off.	can be set only when the Speaker option is set
	Variable	The TV's speakers are turned off, but the audio output from your audio system can still be controlled by the TV's remote control.
	Fixed	The TV's speakers are turned off and the audio output of the TV is fixed. Use your audio receiver's remote control to adjust the volume (and other audio settings) through your audio system.



Using the Screen Menu

To select the Screen Menu

- 1 Press MENU.
- 2 Move the joystick \leftarrow or \rightarrow to move to the Screen icon and press (+).
- 3 Move the joystick \blacklozenge or \clubsuit to move to an option. Press \oplus to select an option.



- Move the joystick $\bullet \bullet \bullet \bullet$ to 4 change settings. Press 🕀 to select the changed setting.
- 5 Press MENU to exit the Menu.

Selecting Screen **Mode Options**

🙄 To change from one Wide Mode to another, use the WIDE MODE button on the remote control.

For Wide Zoom and Zoom modes, you can adjust the vertical position of the picture. For details, see page 97.

The Screen menu includes the following options:

Option	Description	
Select a Wide Mode to use for 4:3 sources	Wide Zoom	Select to enlarge the 4:3 size picture, while the upper and lower parts of the picture are condensed to fit the wide screen.
	Normal	Select to return the 4:3 picture to a 4:3 aspect ratio.
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.
	Zoom	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.
		s unavailable while in Twin View, or when (1080i, 720p) sources.
		cases, wide-screen programs will be shown in tios that require the display of black bands at

the top and bottom of your 16:9 screen. For more details, see page 113.

_	Option	Description	
If 4:3 Default is set to anything but Off, the Wide Mode setting changes only for the current channel. When you change channels (or inputs), Wide Mode is automatically replaced with the 4:3 Default setting. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off.	4:3 Default Select the default Screen Mode to use for 4:3 sources	Wide Zoom	Select to enlarge the 4:3 size picture, while the upper and lower parts of the picture are condensed to fit the wide screen.
		Normal	Select to return the 4:3 picture to normal mode.
		Full	Select to enlarge the 4:3 picture horizontally only, to fill the wide screen.
		Zoom	Select to enlarge the 4:3 picture horizontally and vertically to an equal aspect ratio that fills the wide screen.
		Off	Select to continue using the current Wide Mode setting when the channel or input is changed.
	Vertical Center		o move the position of the picture up and vindow. (Available only in Wide Zoom and .)
		correction bet	stick ♠ or ♥ and press ⊕ to choose a tween +15 and -15 (Zoom mode), and +10 e Zoom mode).



Using the Channel Menu

To select the Channel Menu

- 1 Press MENU.
- 2 Move the joystick ← or → to highlight the Channel icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.



- 4 Move the joystick ★ ★ ★ ★ to change settings. Press ⊕ to select the changed setting.
- **5** Press MENU to exit the Menu.

Selecting	Channel
Options	

The Channel Menu includes the following options:

Description		
Lets you set up a list of your favorite channels. For details, see "Using Favorite Channels" on page 60.		
Off	Turns off Channel Fix.	
2-6	"Fix" your TV's channel setting to 2-6 and use the cable box or satellite receiver to change channels. Select one of these settings if you connected the equipment to the VHF/UHF jack.	
Cable 2-6	Same as 2-6, except you select one of these settings if you connected the equipment to the CABLE jack (see page 17).	
Video 1	Use this setting if you have connected the equipment to the A/V input jacks.	
	ly sets up the channel list on the TV for all nannels.	
will disp	ogram may take several minutes. A progress bar lay the approximate progress of the Auto and Digital Channel Add sequences.	
Add	Select to add digital channels.	
	to customize the analog channels that appear se the CH+/- buttons.	
channel	The press (\bullet) or (\bullet) to scroll through the suntil you find the channel you want to skip then press (\bullet) to select it.	
	The joystick \blacklozenge or \blacklozenge to toggle between Add or	
Skip. The	en press 🕀 to select.	
3 To add	or skip more channels, repeat steps 1 and 2. he joystick \blacklozenge to return to the Channel Menu,	
	Lets you set details, see " Off 2-6 Cable 2-6 Video 1 Automatical receivable ch Matter of the second Program Add Allows you the when you us a Move the channel or add.	

Menus

Channels that you set to be skipped can be accessed only by direct (0-9 buttons) tuning.

Option	Description			
Channel Label	Allows you to assign labels (such as station call letters) to			
	channel numbers. You can label up to 40 channels.			
	1 Move the joystick to highlight Channel and press \oplus .			
	2 Move the joystick ★ ★ to scroll through the channel numbers. Then press ⊕ to select the channel number that you want to assign a label.			
	3 Move the joystick to highlight Label and press \oplus .			
	4 Move the joystick ◆ ◆ to scroll through the label characters (A-Z, 0-9, etc.). Then press ⊕ to select the highlighted character.			
	5 Repeat to add up to 5 characters to the label.			
	6 To assign labels to more channels, repeat steps 1-4.			
	7 Move the joystick			

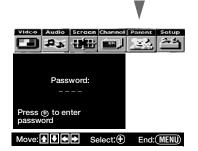


Using the Parent Menu

The Parent Menu allows you to set up the TV to block programs according to their content and rating levels.

To select the Parent Menu

- 1 Press MENU.
- 2 Move the joystick ← or → to highlight the Parent icon and press ⊕.



- **3** Use the 0-9 buttons on the remote control to enter a four-digit password.
- 4 If this is the first time you are creating this password, confirm the password by entering it again. (The Parent Menu options appear.)
- 5 Move the joystick ★ ★ ★ ★ to change settings. Press ⊕ to select the changed setting.
- **6** Press MENU to exit the Menu.

You need your password for any future access into the Parent Menu. If you lose your password, see "Lost password" on page 114.

The Parent Menu includes the following options:

Option	Description			
Parental Lock	Off	Parental lock is off. No programs are		
Turn ratings		blocked from viewing.		
on/off and select a	Child	Maximum ratings permitted are:		
rating system		US: TV-Y, TV-G, G		
8 9		□ Canada: C, G, TV-Y		
	Youth	Maximum ratings permitted are:		
		\Box US: TV-PG, PG		
		□ Canada: C8+, PG, 8 ans+, TV-PG		
	Y. Adult	Maximum ratings permitted are:		
		□ US: TV-14, PG-13		
		□ Canada: 14+, 13 ans+, TV-14		
	Custom	Select to set ratings manually.		
		□ US: See page 101 for details.		
		□ Canada: See page 102 for details.		
Change Password	For changing	your password.		
Select Country	U.S.A.	Select to use USA ratings (see page 101).		
	Canada	Select to use Canadian ratings (see page 102).		

Selecting Parent Options

If you are not familiar with the Parental Guideline rating system, you should select Child, Youth, or Young Adult to help simplify the rating selection. To set more specific ratings, select Custom.

For descriptions of Child, Youth, and Young Adult ratings, see page 101.

US Models: Selecting Custom **Rating Opti**

For US models, the Custom Rating Menu includes the following options. (For Canadian models, see page 102.)

Rating Options	Option	otion Description			
	Movie Rating	G	All children and General Audience.		
		PG	Parental Guidance suggested.		
🙄 The Content-Based Ratings		PG-13	Parental Guidance for children under 13.		
are linked to the level of the Age-Based Rating. For example,		R	Restricted viewing, parental guidance is suggested for children under 17.		
a program with an Age-Based Rating of TV-PG V (Violence)		NC-17 and X	No one 17 or under allowed.		
rating may contain moderate violence, while a TV-14 V	TV Rating	Age-Base	d Ratings		
(Violence) rating may contain	Block programs	TV-Y	All children.		
more intense violence.	by their rating,	TV-Y7	Directed to children age 7 and older.		
	content or both	TV-G	General Audience.		
🙄 To ensure maximum		TV-PG	Parental Guidance suggested.		
blocking capability, set the Age-		TV-14	Parents Strongly cautioned.		
Based Ratings.		TV-MA	Mature Audience only.		
If you block unrated TV programs, be aware that the following types of programs may be blocked: programs		Content-Based Ratings			
		FV	Fantasy Violence.		
		D	Suggestive Dialogue.		
broadcast from another country,		L	Strong Language.		
emergency broadcasts, political		S	Sexual situations.		
programs, sports, news, public service announcements, religious programs and weather.		V	Violence.		
	Unrated Block programs or movies that are broadcast without a rating	Block	Blocks all programs and movies that are broadcast without a rating.		
		Allow	Allows programs and movies that are broadcast without a rating.		

Viewing Blocked Programs

You can view blocked programs by entering the password. Press the ENTER button when tuned to a blocked program, then enter the password. This temporarily switches off the Parental Lock. To reactivate the Parental Lock settings, turn off the TV. When the TV is turned on again, your Parental Lock settings are reactivated.

Canadian Models: Selecting Custom Rating Options

For Canadian models, the Custom Rating Menu includes the following options. (For US models, see page 101.)

Option	Description		
English Rating	С	All children.	
	C8+	Children 8 years and older.	
	G	General programming.	
	PG	Parental Guidance.	
	14+	Viewers 14 and older.	
	18+	Adult programming.	
French Rating	G	General programming.	
	8 ans+	Not recommended for young children.	
	13 ans+	Not recommended for ages under 13.	
	16 ans+	Not recommended for ages under 16.	
	18 ans+	Programming restricted to adults.	
U.S.A. Rating	See "US Models" on page 101 for details.		

Menus

Viewing Blocked Programs

You can view blocked programs by entering the password. Press the ENTER button when tuned to a blocked program, then enter the password. This temporarily switches off the Parental Lock. To reactivate the Parental Lock settings, turn off the TV. When the TV is turned on again, your Parental Lock settings are reactivated.



Using the Setup Menu

To select the Setup Menu

- 1 Press MENU.
- 2 Move the joystick ← or → to highlight the Setup icon and press ⊕.
- 3 Move the joystick to highlight an option. Press ⊕ to select an option.



- 4 Move the joystick ★ ★ ★ ★ to change settings. Press ⊕ to select the changed setting.
- **5** Press MENU to exit the Menu.

Selecting Setup Options

Caption Vision options in the Setup Menu apply only to analog programs. To set up closed captioning for digital programs, see "Using the Caption Vision Menu" on page 65. The Setup Menu includes the following options:

Option	Description			
Caption Vision	Allows you to select from three closed caption modes (for programs that are broadcast with closed caption).			
	CC1, CC2, CC3, CC4	Displays a printed version of the dialog or sound effects of a program. (Should be set to CC1 for most programs.)		
	Text1,Text2, Text3,Text4	Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1.		
	Info	Displays the program name and the time remaining in the program (if the broadcaster offers this service). Displays when the channel is changed or the DISPLAY button is pressed.		
	Off	Turns off Caption Vision.		

	Option	Description
	Video Label	 Allows you to identify A/V equipment you connected to the TV, such as a VCR, DVD, etc. For example, if you have a DVD player connected to the VIDEO 5 jack, you can select the label DVD for the VIDEO 5 input. Then when you press the TV/VIDEO button to change inputs, the Video Label you assigned to that input appears on screen. Move the joystick ♠ or ♥ to highlight the video input (VIDEO 1-7) to which you want to assign a label. Then press ⊕ to select the input.
😨 The Skip label is useful for		2 Move the joystick ♠ or ♥ to highlight one of the displayed labels. Then press ⊕ to select the label.
inputs that do not have		You can select from the following labels for each input:
equipment connected to them.		Video 1/2/3/4VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, LD, Beta, Skip
		Video 5/6/7 DVD, Satellite, Cable Box, DTV, HD, Skip
		If you select Skip, your TV skips this input when you press the TV/VIDEO button.
	Language	Select to display all on-screen Menus in your language of choice.
	Clock/Timers	Select to set the clock and to program your TV to turn on and off at two scheduled viewing times.
		Timer 1You can use the Timers to programTimer 2the TV to turn on and off and tuneto a specific channel at twoscheduled viewing times.
🙄 To go directly to		Timer 1 and Timer 2 are not available to be set until you set the Current Time.
rogramming Timer 1 or 2, programming Timer 1 or 2, press ⊕ instead of moving the joystick →.		 Move the joystick ♠ or ♥ to highlight Timer 1 or Timer 2. To set the timer, move the joystick ➡.
		2 Move the joystick ♠ or ♥ to highlight one of the following options, then press ⊕.
		Program Select to set the Timer by day, time, duration, and channel.
		Off Select to turn off the Timer. (Your previous settings are saved.)
		3 If you selected Program in step 2, move the joystick ♠ and ♥ to set the day(s), hour, minute, duration, and channel number. Press ⊕ or move the joystick ♥ to confirm each setting and move to the next setting. Move the joystick ♥ to go back to the previous setting.
		4 Press MENU to exit the Menu. An LED on the front panel will light, indicating the timer has been set.

	Option	Description		
You can also access Flash Focus by pressing the FLASH FOCUS button on the front panel of the TV. For details, see pages 14-15.	Clock/Timers (continued)	Current Time		
		1 Press 🕀	to select Current Time.	
		(day, hour,	oystick ♠ and ♥ to set the current time and minute). Press ⊕ (or move the to confirm each setting and move to the	
		next settin previous s	g. Move the joystick � to go back to the	
		<u>^</u>	J to exit the Menu.	
	Flash Focus	Allows you to adjust the convergence automatically. For details, see page 42.		
	Convergence	Allows you to fine-tune the convergence manually. For details, see page 43.		
	i.LINK Standby	On	Allows the i.LINK signal to pass through to connected i.LINK devices even when the TV is turned off. The front panel i.LINK Standby LED shows orange. The TV uses more standby power than when this option is set to Off.	
		Off	Does not allow the i.LINK signal to pass through to connected i.LINK devices when the TV is turned off. The front panel i.LINK Standby LED shows red. The TV uses less standby power than when this option is set to On.	
	Demo	Runs a demonstration of on-screen Menus.		

Other Information

Overview

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Glossary

- **analog signal** A signaling method that uses continuous changes in the amplitude or frequency of an electronic transmission to convey information.
- **aspect ratio** Refers to the ratio between the width and height of the screen. This TV has a 16:9 (widescreen) aspect ratio, as opposed to a 4:3 aspect ratio.



16:9 aspect ratio



component video



composite video

digital television (DTV)

National Television System Committee (NTSC) Composite video is sent through a single cable. Composite video combines the color shade (chrominance) and brightness (luminance) information into one video signal.

Component video is sent through three cables: two color shade (chrominance) signals and one brightness (luminance) signal. Component video achieves greater color accuracy than composite video or S VIDEO by splitting chrominance into two separate portions.

A new technology for transmitting and receiving broadcast television signals. DTV provides higher resolution and improved sound quality over analog television.

A unit of the Federal Communications Commission, Washington, DC, that establishes television standards in the United States, such as NTSC Color, the standard used in this TV.

- **RF** Radio Frequency. That part of the frequency spectrum that is used to transmit TV and radio signals.
- **S VIDEO** S VIDEO requires a single cable, which carries the brightness (luminance) and color (chrominance) signals of the picture separately. S VIDEO provides better resolution than composite video, which carries the signals together.
- VHF/UHF VHF (Very High Frequency) is the part of the frequency spectrum from 30 to 300 megahertz. UHF (Ultra High Frequency) is the part of the frequency spectrum from 300 to 3,000 megahertz.
 - **480i** Provides 480 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines.
 - **480p** Provides 480 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
 - **720p** Provides 720 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
 - **1080i** Provides 1080 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines. 1080i is one of the formats used by HDTV (High Definition TV).

Contacting Sony

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (US residents only) or (416) 499-SONY (7669) (Canadian residents only).

Before calling Sony customer support, please write down the model and serial numbers of your TV. You'll find this information on the front cover of this manual.

Troubleshooting

If you are having problems with your TV, you can reset all the TV's settings to their original factory default settings, as follows.

Motice: The following procedure resets all custom settings, channel lists, etc., to the factory default settings.

- 1 Turn on the TV.
- 2 Hold down the RESET button on the remote control.
- **3** Press the POWER button on the front panel of the TV.
- 4 Release the RESET button on the remote control.

Problem	Pos	ssible Remedies
I cannot get Twin View to work		If you are using a cable box to unscramble all channels (as shown on page 22), you cannot use the Twin View feature. This is because the cable box can unscramble only one channel at a time. But if you need the cable box to unscramble only some (usually premium) channels, you can use Twin View for unscrambled channels if you connect both a cable and cable box, as shown on page 21.
		You can use Twin View to view a signal from a different source that is connected to the TV's A/V jacks (such as a VCR or DVD player) in the second window by pressing the TV/VIDEO button while in Twin View.
		Sources connected to the CABLE, VIDEO 5, VIDEO 6, and VIDEO 7 inputs, as well as digital sources, display in the left Twin View window, but not the right.
There is no Twin View		Be sure the Twin View window is set to a video input or channel that has a
window, or it is just static		signal airing.
		You might be tuned to a video input with nothing connected to it. Try cycling through the video inputs by pressing the TV/VIDEO button.
Twin View cannot display anything but TV channels		Try cycling through the video inputs by pressing the TV/VIDEO button. Check that the Video Label option is not set to Skip. (See the Setup Menu on page 104.)
Twin View displays the same program in both windows		Both Twin View windows might be set to the same channel. Try changing channels in either window.

Remote Control		
Problem	Po.	ssible Remedies
Remote control		The batteries could be weak. Replace the batteries.
does not operate		Check the orientation of the batteries.
		Press the TV FUNCTION button. You may have inadvertently pressed the SAT/CABLE FUNCTION button, which changes the remote control to SAT or CABLE mode.
		Make sure the TV's power cord is connected securely to the wall outlet.
		Locate the TV at least 3-4 feet away from fluorescent lights.
Cannot change channels with the remote control		If you are using the TV to change channels, first press the TV FUNCTION button.
		If you are using another device to change channels, be sure you have not inadvertently switched your TV from the channel 3 or 4 setting. Use the Channel Fix option to "fix" the channel based on the hookup you used (see page 98).
		If you are using another device to change channels, be sure to press the FUNCTION button for that device. For example, if you are using your cable box to change channels, be sure to press the SAT/CABLE FUNCTION button.
Remote control		If you replaced the batteries to the remote recently, the code numbers for
does not operate non-Sony		the video equipment may need to be reset.
video equipment		There may be more than one code for the equipment that you are
		attempting to operate.
		There is a possibility that some non-Sony equipment cannot be operated by your Sony TV remote. You may need to use the equipment's original remote control.

Channels		
Problem	Ро	ssible Remedies
Cannot receive upper channels (UHF) when using an antenna		Use Auto Program in the Channel Menu to add receivable channels that are not presently in the TV's memory (see page 98).
TV is fixed to one channel		Use Auto Program in the Channel Menu to add receivable channels that are not presently in the TV's memory (see page 98). Check your Channel Fix settings (see page 98).
Cannot receive any channels when using cable TV		Use Auto Program in the Channel Menu to add receivable channels that are not presently in the TV's memory (see page 98).
Cannot receive or select channels		Use Auto Program in the Channel Menu to add receivable TV channels that are not presently in TV memory (see page 98).
Some digital cable channels are not being displayed		Certain cable companies have limitations on the broadcast of digital cable channels. Check with your cable company for more information. The digital cable channel may be set to Hide in the Digital Setup Menu (see page 65). Use the Add Digital Channels feature to search for new digital channels
		(see page 65).

Memory Stick

Problem	Pos	ssible Remedies
Image does not		Make sure the image file is a JPEG (.jpg, .jpeg) file or an MPEG1 (.mpg,
display/Cannot see all files		mpeg) file.
1 2		Make sure the Memory Stick is inserted properly (see pages 69-70).
		Check the Filter option setting (see page 80).
		Check the Select Contents setting (see page 80) and ensure that files are either in DCF directories if Digital Camera Folders is selected (see page 80), or in the currently selected folder if Select a Folder is selected (see page 80).
		The maximum number of files the Memory Stick Viewer can display is 1,024.
		If you are using a Memory Stick with the Memory Select function, try changing the position of the A/B select switch.
JPEG image displays undesirable motion or flicker in full screen	- -	JPEGs captured using a digital video camera may appear to display motion in full screen. This is a result of the way digital video cameras record still images, and is not a result of a malfunction with the TV.
Rotation not saved after Memory Stick is ejected or		The Memory Stick might be locked. Unlock the Memory Stick and try rotating the image again.
Memory Stick Viewer is closed		The file might not have information (EXIF data) that is usually generated when a digital camera records a photo. In this case, it is not possible to save
		the rotation. There might be insufficient space on the Memory Stick to save the rotated file. Try deleting one or more files and rotating the image again.
Cannot show (or hide) file		Set the File/Information option to On or Off (see pages 75 and 78).
information in full screen or Slide Show		eet die mennennaach op don to on of on (see pages / s and / s).
Cannot see menu		Move the joystick 🕈 to display the menu again.
Cannot hear audio while		Check the TV's volume or Speaker (page 95) settings.
using Memory Stick		To hear JPEG voice memo, select the Digital Camera Folders option and set the Filter option to Show All.
		Check that the Music option is not to set to Off (see page 79).
Not all MP3 files on Memory Stick are included when the	7 🛄	The maximum number of MP3 files the Memory Stick Viewer can display is 128.
Music /Complete List option is selected (page 79)		Make sure that the file is named with the file extension (.mp3).
MPEG1 movie does not play back correctly		Some variations of MPEG1 movies may not be compatible with the Memory Stick Viewer.
MPEG1 quality is poor when enlarged (page 77)	1 🗆	The quality of the movie when enlarged depends on the resolution of the MPEG1 file. See your camera's instruction manual for details.
MP3 files on the Memory Stick are not listed		Only MP3 files that are named with the file extension (.mp3) are displayed in the list.
Music files are playing in		MP3 files are played in alphabetical order, according to the folder in which
wrong order		they are stored. If you want to change the playlist order, rename your files alphabetically in the order in which you want them to play.
Cannot see MP3 list to play		MP3 files on your Memory Stick only can be played as background music
music		during a Slide Show (see page 79).

Problem	Po	ssible Remedies	
TIONEAndradiusstageTV'		No Memory Stick	There is no Memory Stick in the slot.
is displayed		Memory Stick Locked	The lock mechanism on the Memory Stick is engaged.
		Memory Stick Error	The Memory Stick in the slot might be damaged; try a different Memory Stick.
		Format Error	The Memory Stick may have been formatted using a PC or other device that is not compatible with cameras.
Error icon is displayed			The file is not a valid MPEG1 or JPEG format.
			The thumbnail is not DCF-compatible.
			The file is a JPEG or an MPEG1, but the thumbnail is unreadable.
			The file is unreadable.

Audio

Video

Problem	Pos	ssible Remedies	
No picture		If your TV does not turn on, and a red light keeps flashing, your TV may	
(screen not lit), no sound		need service. Call your local Sony Service Center.	
		Make sure the power cord is plugged in.	
		Press the POWER button on the front of the TV.	
		Press the TV/VIDEO button to cycle through the connected video sources.	
		Try another channel; it could be station trouble.	
Dark, poor or no		Adjust the Picture option in the Video Menu (see page 92).	
picture (screen lit),		Adjust the Brightness option in the Video Menu (see page 92).	
good sound		Check the antenna/cable connections.	
No color		Adjust the Color option in the Video Menu (see page 92).	
Only snow and noise		Check the antenna/cable connections.	
appear on the screen		Try another channel; it could be station trouble.	
		Press ANT to change the input mode (see page 46).	
Dotted lines		Adjust the antenna.	
or stripes		Move the TV away from noise sources such as cars, neon signs, or hair-	
		dryers.	
Double images or ghosts		Using a highly directional outdoor antenna or a cable may solve the problem.	
"Black box" on screen		You have selected a text option in the Setup Menu and no text is available. (See page 103 to reset Setup selections.) To turn off this feature, set the Caption Vision option to Off. If you were trying to select closed captioning, select CC1 instead of Text 1-4.	
Black bands appear at the Department of the screen		Some wide-screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider).	
Certain programs on DVD o other digital sources display a loss of detail, especially during fast-motion or dark scenes		The compression used by certain digital broadcasts and DVDs may cause your TV's screen to display less detail than usual, or cause artifacts (small blocks or dots, pixelations) to appear on your screen. This is due to your TV's large screen and ability to show very fine detail, and is normal for certain digitally recorded programs. Adjust the reality/clarity in the DRC Palette menu (see page 93) to optimize the picture while viewing these sources.	

General

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	Pos	sible Remedies
How to reset TV to		Turn on the TV. While holding down the RESET button on the remote
factory settings		control, press the POWER button on the TV. (The TV will turn itself off, then
		back on again.) Release the RESET button.
How to restore Video settings		Press the RESET button on the remote control while in the Video Menu (see
to factory settings		page 92).
How to restore Audio		Press the RESET button on the remote control while in the Audio Menu (see
settings to factory settings		page 94).
Cannot cycle through the		Be sure the Video Label option is not set to Skip (see page 104).
other video equipment		
connected to the TV		
Cannot operate Menu		If a menu option appears in gray, this indicates that the TV is in a state in
		which the menu option is not available.
Lost password		In the password screen (see page 100), enter the following master
-		password: 4357. The master password clears your previous password; it
		cannot be used to temporarily unblock channels.
LED on front panel is lit		The STAND BY LED (see page 15) blinks when the TV is turned on, then
-		shuts off when the picture is displayed. If the LED blinks continuously, this
		may indicate the TV needs service.
C		The TIMER LED (see page 15) indicates that the timer is set. When the
		timer is set, this LED will remain lit even when the TV is turned off.
		The i.LINK STANDBY LED blinks when the signal from an i.LINK device
		is being shown.
The signal from a selected		If you have several i.LINK devices connected and operating at once, the TV
i.LINK device is not being		may not be able to display the signal from the selected device. Turn the
displayed		other i.LINK devices off, and reselect the desired i.LINK device.

Specifications

Projection System	3 picture tubes, 3 lenses, hori	zontal in-line system		
Picture Tube	7-inch high-brightness mono	chrome tubes (6.3 raster size), with optical		
	coupling and liquid cooling system			
Projection Lenses	High performance, large			
	diameter hybrid lens F1.1			
Antenna	75 ohm external terminal for	VHF/UHF		
Television System	NTSC, American TV Standar	·d		
Channel Coverage	VHF	2-13		
	UHF	14-69		
	DTV	1-999		
	CATV	1-125		
Power Requirements	120V, 60 Hz			
Inputs/Outputs				
DVI-HDTV	1 terminal, 3.3V T.M.D.S., 50	ohms		
		al is compliant with the EIA-861 standard and is		
	not intended for use with per	rsonal computers.		
Video (IN)	4 total (1 on front panel)	1 Vp-p, 75 ohms unbalanced, sync negative		
S Video (IN)	3 total (1 on front panel)	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms		
Audio (IN)	7 total (1 on front panel)	500 mVrms (100% modulation)		
	· • • •	Impedance: 47 kilohm		
Component Video Input	2 (Y, P _B , P _R)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync		
		negative; P _B : 0.7 Vp-p, 75 ohms		
		P _R : 0.7 Vp-p, 75 ohms		
Digital Audio Optical Output PCM/Dolby Digital	1	Optical Rectangular (1)		
CONTROL S (IN/OUT)	1			
i.LINK	3 total (1 on front panel)	4-pin S400 i.LINK terminal		
Variable/Fixed Audio (OUT)	1	More than 408 mVrms at the maximum		
		volume setting (Variable)		
		More than 408 mVrms (Fixed)		
		Impedance (output): 2 kilohms		
Supplied Accessories	Remote Control	RM-Y192		
	AA (R6) Batteries	2 supplied for remote control		
Screen Size (measured diagonally)	KDP-51WS550			
Screen Size (measured diagonally)	KDI-51W 5550	51 inches		
Screen Size (measured diagonally)	KDP-57WS550	51 inches 57 inches		
Screen Size (measured diagonaliy)				
Speaker Output	KDP-57WS550	57 inches		
Speaker Output	KDP-57WS550 KDP-65WS550	57 inches		
	KDP-57WS550 KDP-65WS550 20W x 2	57 inches 65 inches		
Speaker Output	KDP-57WS550 KDP-65WS550 20W x 2	57 inches 65 inches 1194 x 1350 x 650 mm		
Speaker Output	KDP-57WS550 KDP-65WS550 20W x 2 KDP-51WS550	57 inches 65 inches 1194 x 1350 x 650 mm (47 x 53 ¹ / ₈ x 25 ⁵ / ₈ in) 1326 x 1377 x 690 mm		
Speaker Output	KDP-57WS550 KDP-65WS550 20W x 2 KDP-51WS550	57 inches 65 inches 1194 x 1350 x 650 mm (47 x 53 ¹ / ₈ x 25 ⁵ / ₈ in)		
Speaker Output	KDP-57WS550 KDP-65WS550 20W x 2 KDP-51WS550 KDP-57WS550	57 inches 65 inches 1194 x 1350 x 650 mm (47 x 53 ¹ / ₈ x 25 ⁵ / ₈ in) 1326 x 1377 x 690 mm (52 ¹ / ₄ x 54 ³ / ₁₆ x 27 ¹ / ₈ in)		
Speaker Output	KDP-57WS550 KDP-65WS550 20W x 2 KDP-51WS550 KDP-57WS550	57 inches 65 inches 1194 x 1350 x 650 mm (47 x 53 ¹ / ₈ x 25 ⁵ / ₈ in) 1326 x 1377 x 690 mm (52 ¹ / ₄ x 54 ³ / ₁₆ x 27 ¹ / ₈ in) 1542 x 1507 x 735		
Speaker Output Dimensions (W x H x D)	KDP-57WS550 KDP-65WS550 20W x 2 KDP-51WS550 KDP-57WS550 KDP-65WS550	57 inches 65 inches $1194 \times 1350 \times 650 \text{ mm}$ $(47 \times 53 \ \frac{1}{8} \times 25 \ \frac{5}{8} \text{ in})$ $1326 \times 1377 \times 690 \text{ mm}$ $(52 \ \frac{1}{4} \times 54 \ \frac{3}{16} \times 27 \ \frac{1}{8} \text{ in})$ $1542 \times 1507 \times 735$ $(60 \ \frac{3}{4} \times 59 \ \frac{1}{4} \times 28 \ \frac{15}{16} \text{ in})$ $79.3 \text{ Kg (174.5 \text{ lbs})}$		
Speaker Output Dimensions (W x H x D)	KDP-57WS550 KDP-65WS550 20W x 2 KDP-51WS550 KDP-65WS550 KDP-65WS550 KDP-51WS550	57 inches 65 inches $1194 \times 1350 \times 650 \text{ mm}$ $(47 \times 53^{-1}/_8 \times 25^{-5}/_8 \text{ in})$ $1326 \times 1377 \times 690 \text{ mm}$ $(52^{-1}/_4 \times 54^{-3}/_{16} \times 27^{-1}/_8 \text{ in})$ $1542 \times 1507 \times 735$ $(60^{-3}/_4 \times 59^{-1}/_4 \times 28^{-15}/_{16} \text{ in})$ $79.3 \text{ Kg (174.5 \text{ lbs})}$ $87.0 \text{ Kg (191.5 \text{ lbs})}$		
Speaker Output Dimensions (W x H x D) Mass	KDP-57WS550 KDP-65WS550 20W x 2 KDP-51WS550 KDP-65WS550 KDP-51WS550 KDP-51WS550 KDP-57WS550	57 inches 65 inches $1194 \times 1350 \times 650 \text{ mm}$ $(47 \times 53 \ \frac{1}{8} \times 25 \ \frac{5}{8} \text{ in})$ $1326 \times 1377 \times 690 \text{ mm}$ $(52 \ \frac{1}{4} \times 54 \ \frac{3}{16} \times 27 \ \frac{1}{8} \text{ in})$ $1542 \times 1507 \times 735$ $(60 \ \frac{3}{4} \times 59 \ \frac{1}{4} \times 28 \ \frac{15}{16} \text{ in})$ $79.3 \text{ Kg (174.5 \text{ lbs)}}$		
Speaker Output Dimensions (W x H x D)	KDP-57W\$550 KDP-65W\$550 20W x 2 KDP-51W\$550 KDP-65W\$550 KDP-65W\$550 KDP-51W\$550 KDP-65W\$550 KDP-51W\$550 KDP-65W\$550	57 inches 65 inches $1194 \times 1350 \times 650 \text{ mm}$ $(47 \times 53 \frac{1}{8} \times 25 \frac{5}{8} \text{ in})$ $1326 \times 1377 \times 690 \text{ mm}$ $(52 \frac{1}{4} \times 54 \frac{3}{16} \times 27 \frac{1}{8} \text{ in})$ $1542 \times 1507 \times 735$ $(60 \frac{3}{4} \times 59 \frac{1}{4} \times 28 \frac{15}{16} \text{ in})$ $79.3 \text{ Kg} (174.5 \text{ lbs})$ $87.0 \text{ Kg} (191.5 \text{ lbs})$ $139.5 \text{ Kg} (307 \text{ lbs})$		

Design and specifications are subject to change without notice.

Optional Accessories

- □ A/V Cable (VMC-810/820/830 HG)
- □ Audio Cable (RKC-515HG)
- □ Component Video Cable (VMC-10/30 HG)
- □ Control S Cable (RK-G69HG)
- □ i.LINK cables: VMC-IL4415 (4-pin to 4-pin, 1.5 meters); VMC-IL4435 (4-pin to 4-pin, 3.5 meters)

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LIMITED WARRANTY

This warranty is applicable to U.S. residents only. If you are a Canadian resident, see the separately enclosed warranty for your product.

Sony Electronics Inc. ("Sony") warrants this Product (including any accessories) against defects in material or workmanship, subject to any conditions set forth as follows:

- 1. LABOR: For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labor charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labor charges.
- 2. PARTS: In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year (color picture tube- two (2) years). After 90 days from the date of purchase, labor for removal and installation is available from Sony authorized service facilities or a Sony Service Center at your expense.
- 3. ACCESSORIES: Parts and labor for all accessories are for one (1) year.

In-home diagnostic warranty service is provided during the initial 90 day period for 19" (measured diagonally), or larger screen size through a Sony authorized service facility.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree or protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

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Sony Customer Information Service Center

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